DIGIPRESSURE®

Digital Multi Pressure Gauge & Switch

PRODUCT CATALOG



www.digipressure.com

Company Overview

DIGIPRESSURE Co., Ltd. specializes in pressure control components and solutions. With patented pressure switch technology, we have established strong expertise and competitiveness in the refrigeration control industry.

We have successfully localized pressure sensors and switches, replacing imported products through in-house manufacturing, quality control, and after-sales service. Our products are exported to the Americas, Europe, and the Middle East.

We also provide comprehensive refrigeration control solutions, including fan speed controllers (INV, DPF3) and electronic expansion valve controllers (DVS).

DIGIPRESSURE remains committed to customer satisfaction through innovative technology, reliable quality, and competitive pricing.

Yo Han Hong CEO, DIGIPRESSURE Co., Ltd.



Company History

2023 Establishment of DIGIPRESSURE Co., Ltd.

After 20 years of experience since 2004 under Green System, the company was reorganized into DIGISENSE (sensor division) and DIGIPRESSURE (refrigeration control division) in December 2023 to strengthen expertise in each field.

► Exhibitions & Awards

- Participated in international HVAC&R exhibitions in Korea
- Received the Ministerial Award for Industrial Development
- Received the Gyeonggi Province Governor's Commendation

Recognized for technological excellence and contributions to the HVAC&R industry.

► roduct Certifications & Global Expansion

- DVS “CE” Certification
- DVD “CE” Certification

Expanded global sales of EEV controllers across Europe, the Americas, the Middle East, and Africa.

► Product Certifications & Lineup Expansion

- DPC, MPC “CE” Certification
- Venture Business Certification

Launched the DPF2 single-phase fan speed controller and an EEV controller with an LCD display, expanding market presence through HARFKO 2026.

DPC SERIES

DIGITAL PRESSURE SWITCH

DPC-	HL-	AH-	CM-	10P-	R3-	AC-	10-	3M
	①	②	③	④	⑤	⑥	⑦	⑧

① Model Configuration

HL(H2L1) = High x1, Low x2
H1L2 = High x1, Low x2
DIF = High x1, Low x1, Differential x1
L3 = Low x3
H3 = High x3
L1H3 = Low x1, High x3
L2H2 = Low x2, High x2
L3H1 = Low x3, High x1
L4 = Low x4
H4 = High x4

Pressure Unit Display

>MODE SELECT
(Kgf, Mpa, Bar, Psi)
Built-in Pressure Unit conversion

⑤ PCB Type

R3
R4
10A(*Default)
R3T
R4T

⑥ Power Supply

DC = 24V
*Default
AC = 100-240VAC

⑦ Pressure Range

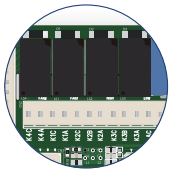
10 (ORDER)
20
30
*Default
50

② Output (OPTION)

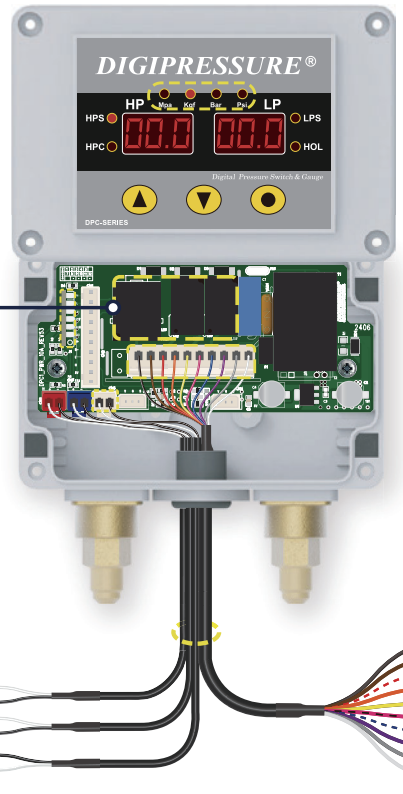
<Output option A>
H = High 4-20mA
L = Low 4-20mA
HL = High/Low 4-20mA
HH = High 2CH 4-20mA
<Output option OP>
OP = Ext. Switch
OPH = Ext. Switch + High Current



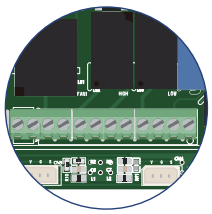
SSR Type



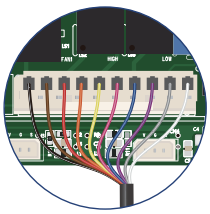
R4 Type



Terminal Block Type



Connector Type



④ Harness TYPE

08P = 8P
10P = 10P
Terminal Block Type

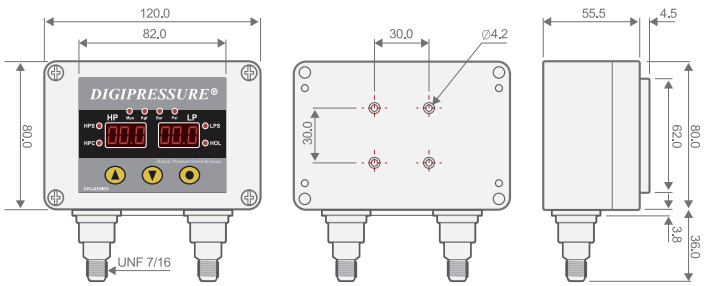
ⓘ Dotted terminals unused in 8P configuration.

③ Communication (OPTION)

CM = Modbus-RTU

※ Product case color may change without notice.

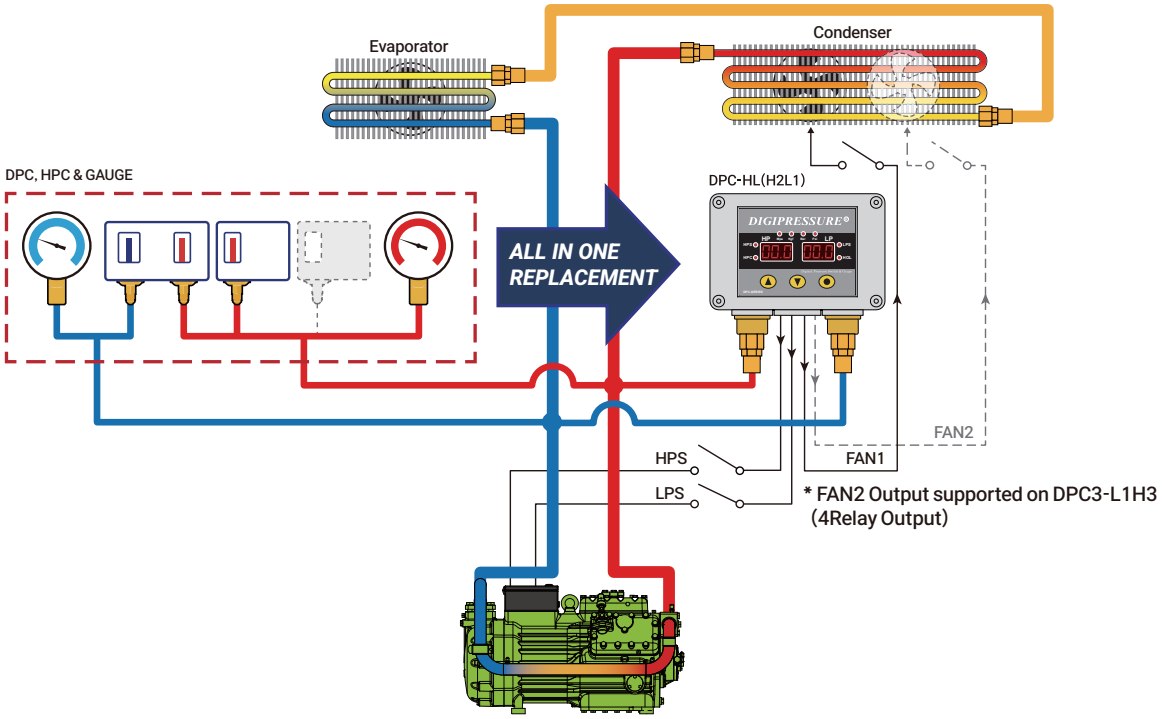
Installation Types

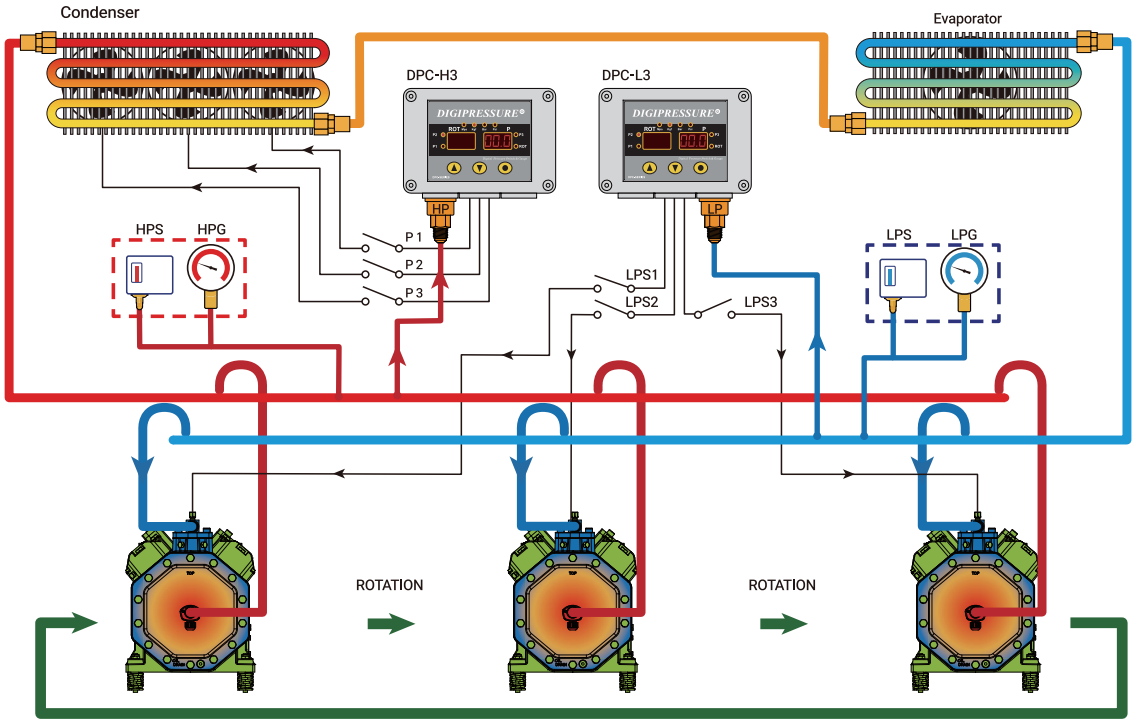


Specifications

Power Supply	100-240V~ ±10% 50-60hz, (24VDC Optional)
Current Draw	200mA
Display	0.36" 3 Digit FND x 2 for HP & LP
Pressure Range	-1.0~50Kgf/cm² (Both Low & High)
Relay Output	SPDT 250V / 3A * 2EA
	SPST 250V / 10A * 1EA
Operating Temp.	-20~60°C RH 80%
Sensor Accuracy	0.5%
Communication	RS-485 (Modbus-RTU)
Current Output	4~20mA (0 to 50 kgf/cm²)

DPC SERIES Applications





DPC R3


DPC-HL


DPC-H1L2


DPC-DIF


DPC-L3


DPC-H3

DPC SERIES	Specifications	Applications	Sensor	OUTPUT			Current (OPTION)	RS-485 (OPTION)
				LP	HP	FAN		
DPC-HL (H2L1)	-1.0~50kgf Mpa/Bar/Psi	For Hermetic Compressors 2 HP, 1 LP, and Fan Control Replacement for Pressure Switches & Pressure Gauges	2	1	1	1	O	O
DPC-H1L2	-1.0~50kgf Mpa/Bar/Psi	For Hermetic Compressors Replacement for HP/LP Pressure Switches and Pressure Gauges	2	2	1	-	O	O
DPC-DIF	-1.0~50kgf Mpa/Bar/Psi	Oil Differential Pressure Control Replacement for Oil Filter Differential Pressure Switches	2	1	1	DIFF. 1	O	O
DPC-L3	-1.0~20kgf Mpa/Bar/Psi	Multi-Unit Pressure Control 2-Stage / 3-Stage Capacity Control	1	P1 1	P2 1	P3 1	O	O
DPC-H3	-1.0~30, 50, 100,200,600 kgf Mpa/Bar/Psi	For Pumps, Air Compressors and Compressors 2-Stage / 3-Stage Fan Control	1	P1 1	P2 1	P3 1	O	O

DPC R4


DPC-L1H3


DPC-L2H2


DPC-L3H1

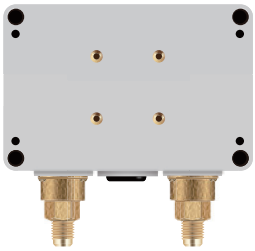

DPC-L4


DPC-H4

DPC SERIES	Specifications	Applications	Sensor	OUTPUT				Current (OPTION)	RS-485 (OPTION)
				LP	HP	FAN			
DPC-L1H3	-1.0~50kgf Mpa/Bar/Psi	For Refrigeration Systems 3 HP, 1 LP, 2 Fan Control Replacement for Pressure Switches & Pressure Gauges	2	1	1	2		O	O
DPC-L2H2	-1.0~50kgf Mpa/Bar/Psi	For Refrigeration Systems 2 LP, 2 HP, 1 Fan Control Replacement for Pressure Switches & Pressure Gauges	2	2	1	1		O	O
DPC-L3H1	-1.0~50kgf Mpa/Bar/Psi	For Refrigeration Systems 3 LP, 1 HP Control Replacement for Pressure Switches & Pressure Gauges	2	3	1	-		O	O
DPC-L4	-1.0~20kgf Mpa/Bar/Psi	Multi-Unit Pressure Control 2-Stage, 3-Stage, 4-Stage Capacity Control	1	P1 1	P2 1	P3 1	P4 1	O	O
DPC-H4	-1.0~30, 50, 100,200,600 kgf Mpa/Bar/Psi	For Pumps, Air Compressors and Compressors 2-Stage, 3-Stage, 4-Stage Fan Control	1	P1 1	P2 1	P3 1	P4 1	O	O

DPC HL(H2L1)





- 2 Pressure Sensors (HP/LP)

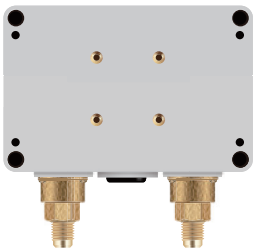
– Controls reciprocating, scroll & screw compressors
– 1 HP, 1 LP & 1 FAN relay output
– HP OFF / LP ON & OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psi

Replacement



DPC DIF





- 2 Pressure Sensors (HP/LP/DP Switch)

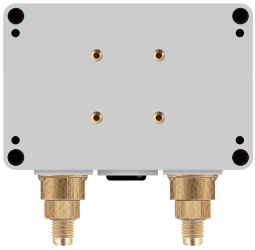
– Oil differential pressure control (replaces inlet/outlet DP switches)
– 3 relay outputs: HP, LP & DP
– HP / LP / DP delay timers
– Differential ON delay timer
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psi

Replacement



DPC H1L2





- 2 Pressure Sensors (HP/LP)

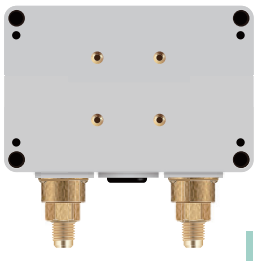
– Additional LP control switch (for reciprocating, rotary & scroll compressors)
– 1 HP & 2 LP relay outputs
– HP OFF / LP ON & OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psi

Replacement



DPC L1H3

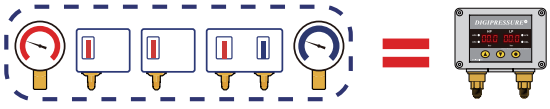




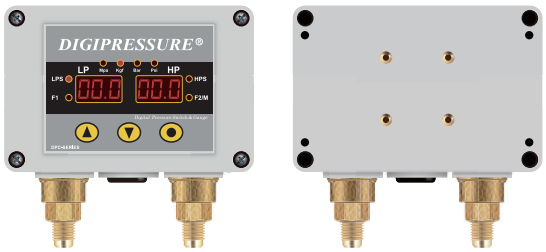
- 2 Pressure Sensors (LP/HP)

– 1 LP, 1 HP & 2 FAN relay outputs
– LP ON & OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psi

Replacement



DPC L2H2



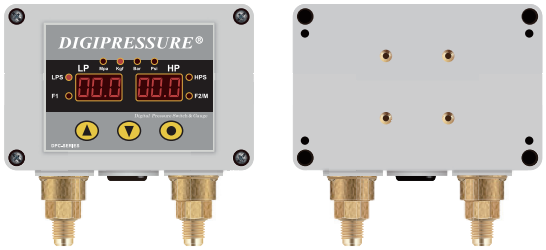
- 2 Pressure Sensors (LP/HP)

– Controls hermetic reciprocating, screw & scroll compressors
– 2 LP, 1 HP & 1 FAN relay outputs
– LP ON & OFF / HP OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psi

Replacement



DPC L3H1



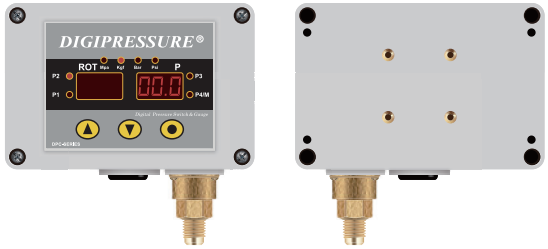
- 2 Pressure Sensors (LP/HP)

– Controls hermetic reciprocating, screw & scroll compressors
– 3 LP & 1 HP relay outputs
– LP ON & OFF / HP OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psi

Replacement



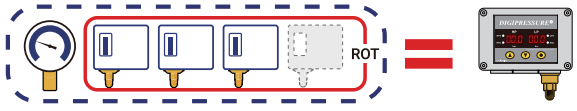
DPC L3 & L4



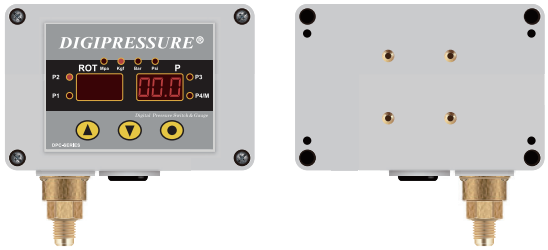
- 1 Pressure Sensor (LP)

– Multi-compressor operation control
– L3: 3 relay outputs / L4: 4 relay outputs
– LP ON & OFF delay timers
– Alternating control
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psi

Replacement



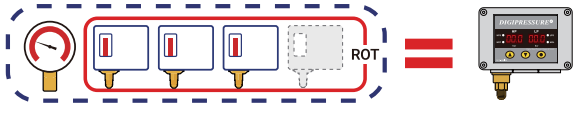
DPC H3 & H4



- 1 Pressure Sensor (HP)

– Multi-compressor operation control
– H3: 3 relay outputs / H4: 4 relay outputs
– HP ON & OFF delay timers
– Alternating control
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psi

Replacement



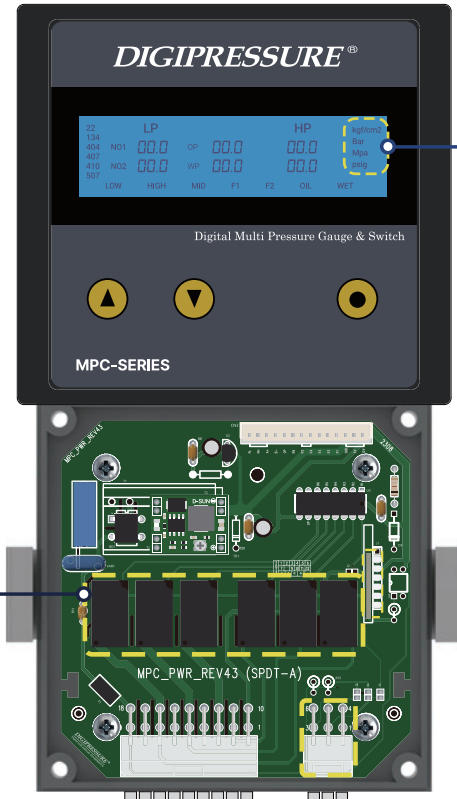
MPC SERIES

DIGITAL MULTI PRESSURE SWITCH

MPC- | HLO- ① | AH- ② | CM- ③ | 18P- ④ | AC- ⑤ | 3M ⑥

① Model Configuration

HLO : Semi-Hermetic
HLO-L2 : Capacity Control
HLO-L3 : Capacity Control
HLO-L4 : Capacity Control
HLOM : 2-Stage Semi-Hermetic
HLOM-L2 : 2-Stage Semi-Hermetic
HLOM-L3 : 2-Stage Semi-Hermetic
HLOS : Single-Stage Screw
HLOMS : 2-Stage Screw
HLOMS-L2 : Capacity Control
HLW : Chiller
HLOW : Reciprocating + Chiller
HLOWS : Screw + Chiller
H2L2 : Cascade / 2-Cycle
H3L3 : Tandem / Multi Unit
H4L2 : Tandem / Semi-Multi Unit
H2L4 : Hermetic Screw
H1L5 : Hermetic Screw
HL6 : Hermetic Screw



⑤ Power Supply

DC = 24V
*Default
AC = 100-240VAC

Pressure Unit Display

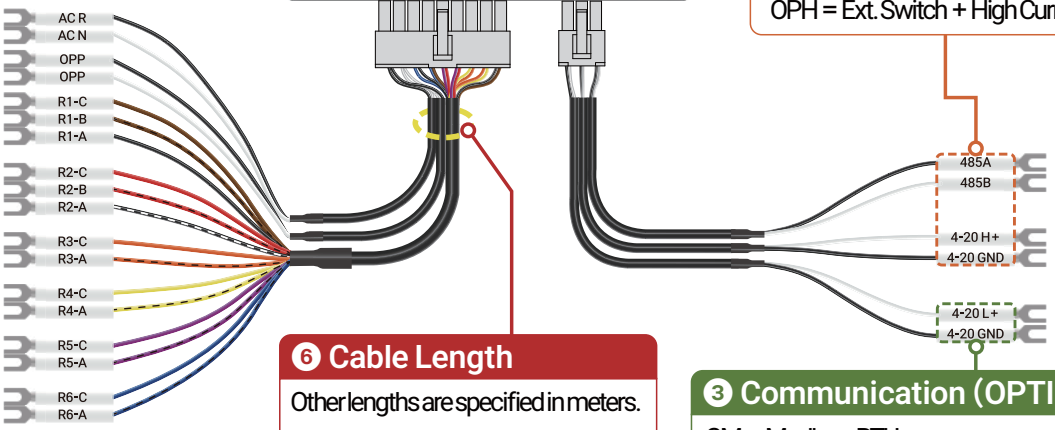
>MODE SELECT
(Kgf, Mpa, Bar, Psi)
Built-in Pressure Unit conversion

② Output (OPTION)

<Output option A>
H = High 4-20mA
L = Low 4-20mA
HL = High/Low 4-20mA
HH = High 2CH 4-20mA
<Output option OP>
OP = Ext. Switch
OPH = Ext. Switch + High Current

④ Harness TYPE

18P = 18P



⑥ Cable Length

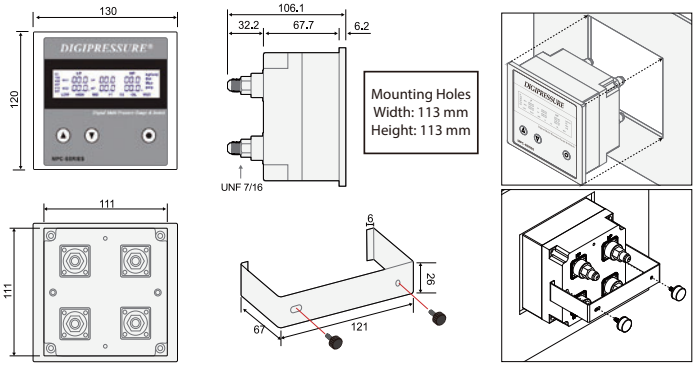
Other lengths are specified in meters.
*Default : 2.0m Cable

③ Communication (OPTION)

CM = Modbus-RTU

※ Product case color may change without notice.

Installation Types

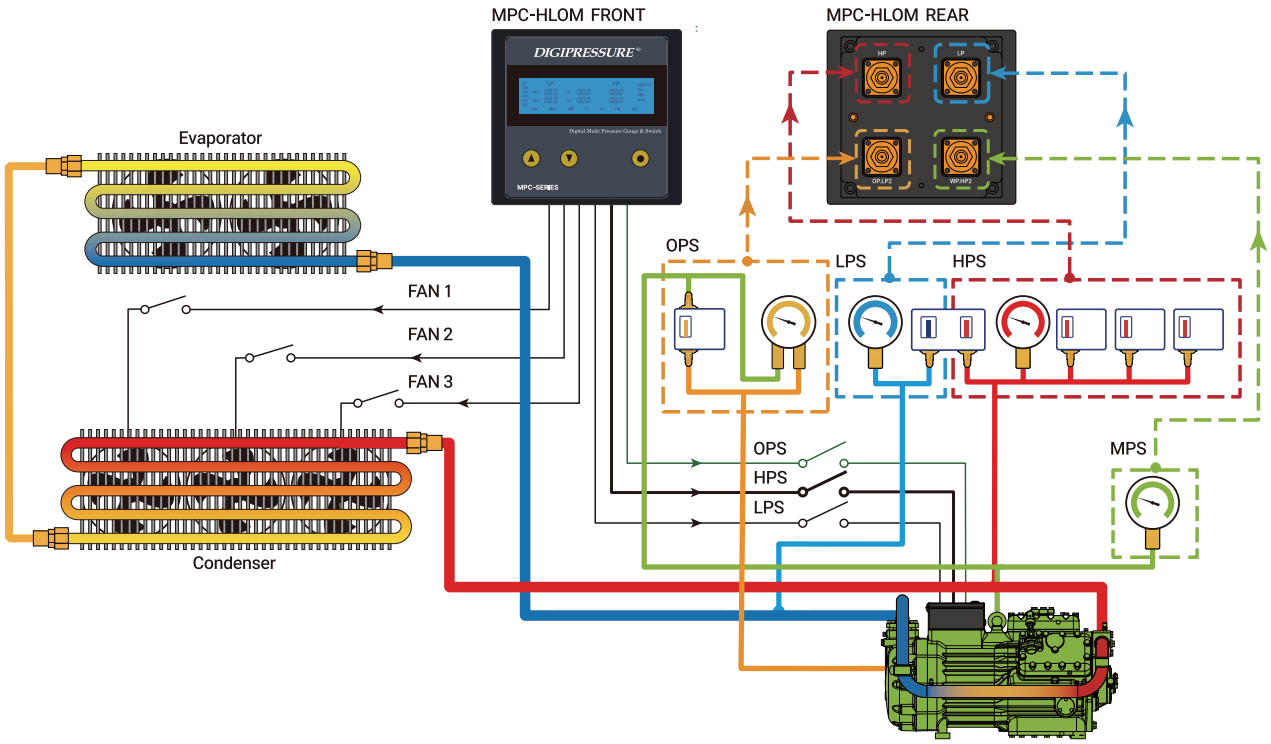


Specifications

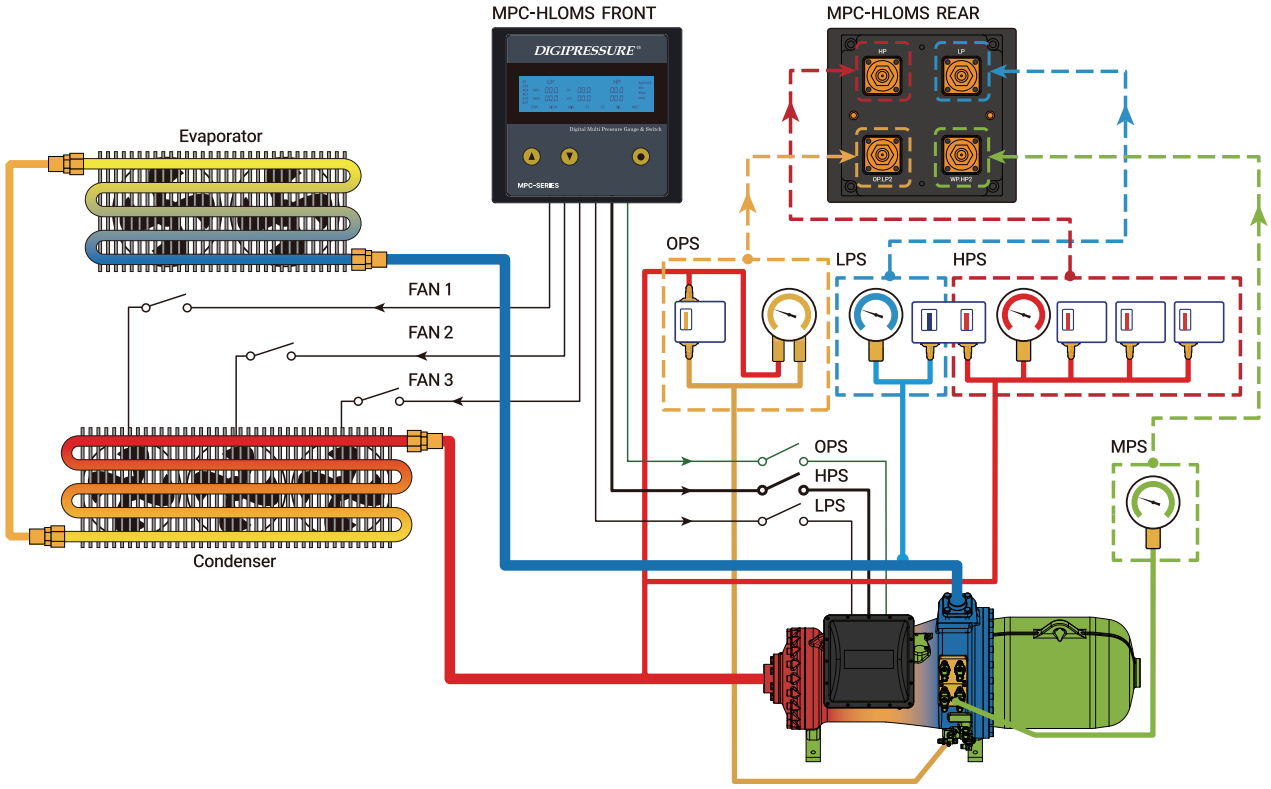
Power Supply	100-240V~ ±10% 50-60hz, (24VDC Optional)
Current Draw	200mA
Display	Color LCD, Blue Backlight
Pressure Range	-1.0~50Kgf/cm² (LP, HP & Oil)
Relay Output	OP/HP: SPDT 250VAC/5A × 2
	LP, FA1-3: SPST 250VAC/5A × 4
Operating Temp.	-20 to 60°C, RH 60%
Sensor Accuracy	0.5%
Communication	RS-485 (Modbus-RTU)
Current Output	4-20mA (0 to 50 kgf/cm²)

MPC SERIES Applications

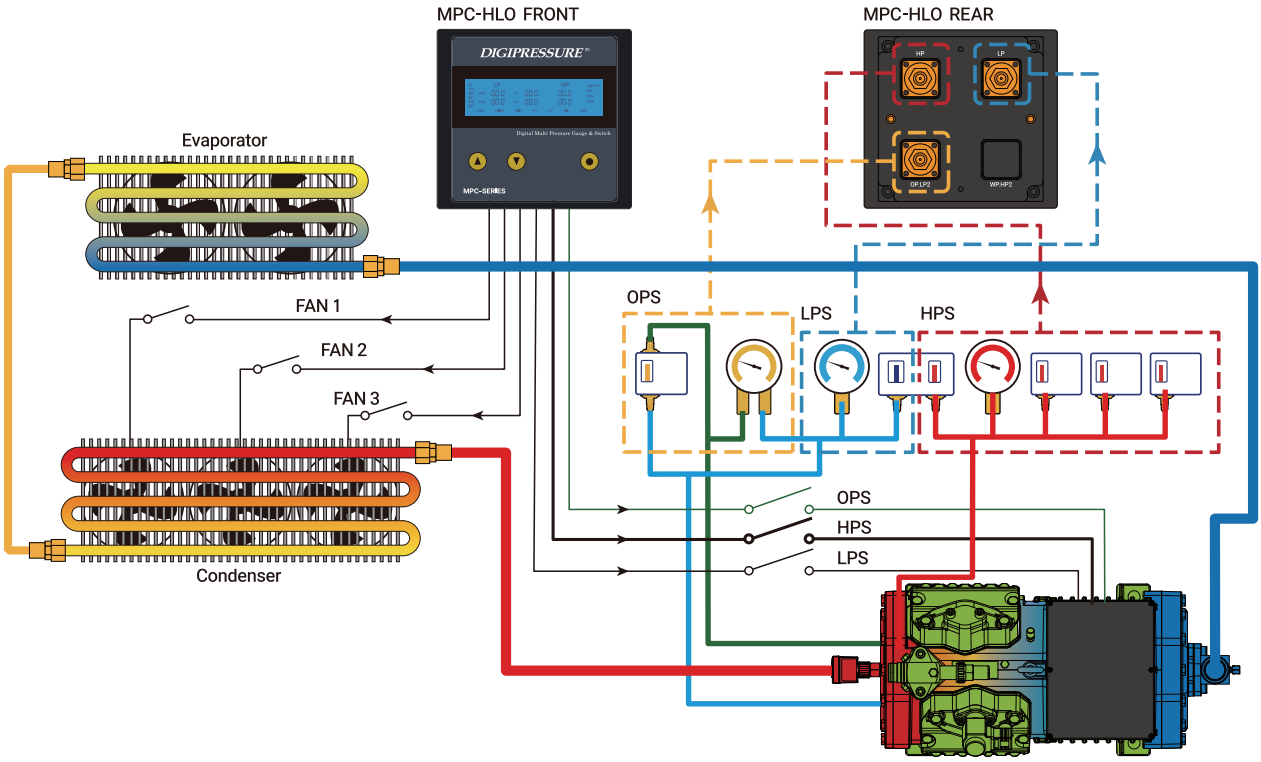
MPC-HLOM



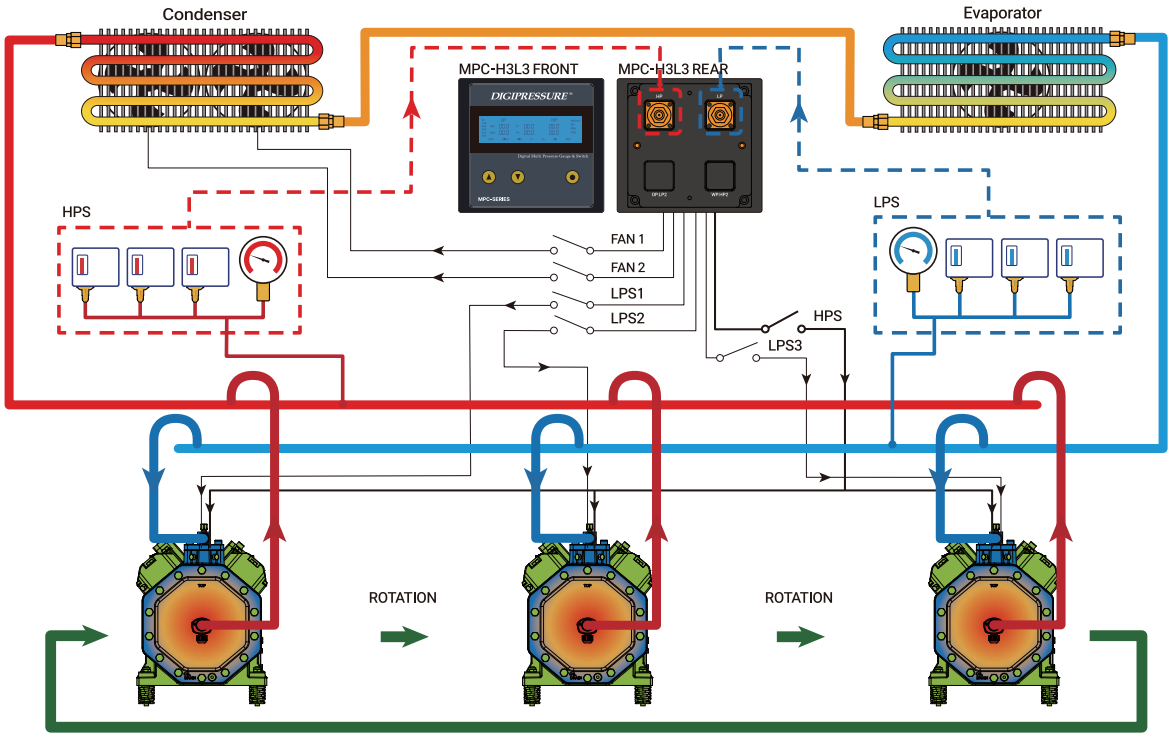
MPC-HLOMS



MPC–HLO

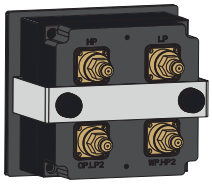


MPC–H3L3



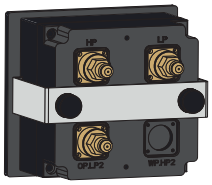
MPC SERIES 모델사양표

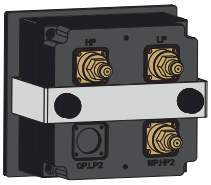




MPC SERIES	Specifications	Application function	Sensor	OUTPUT					Current (OPTION)	RS-485 (OPTION)
				SP/WP	LP	OP	HP	FAN		
MPC-HLOM	-1.0~50kgf Mpa/Bar/Psig	Medium pressure/hydraulic comparison Hp 4 (including 3 FAN) of a 2-stage semi-hermetic compressor Lp 1, hydraulic pressure 1 pressure switch and pressure gauge replacement	4		1	1	1	3	○	○
MPC-HLOMS		High pressure/oil pressure comparison Two-stage screw compressor type HP switch 1 EA, FAN switch 3 EA, LP switch 1 EA, oil pressure 1 EA	4		1	1	1	3	○	○
MPC-HLOW		Semi-hermetic type Compressor (WATER & AIR control) HP switch 3 EA, FAN switch 2 EA, LP switch 1 EA, oil pressure 1 EA	4	1	1	1	1	2	○	○
MPC-H2L2		dual chilling and 2 CYCLE Compressor operating HP switch 2 EA, LP switch 2 EA and FAN switch 2 EA pressure switch and pressure gauge replacement (2STEP tandem type)	4		2		2	2	○	○

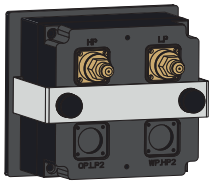






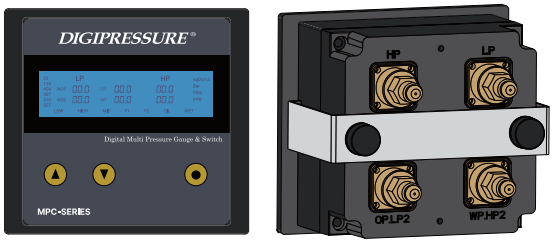
MPC SERIES	Specifications	Application function	Sensor	OUTPUT					Current (OPTION)	RS-485 (OPTION)
				SP/WP	LP	OP	HP	FAN		
MPC-HLO	-1.0~50kgf Mpa/Bar/Psig	semi-hermetic compressor type oil pressure switch included LP switch 1 EA, HP switch 1 EA, oil pressure switch 1 EA, FAN switch 3 EA	3		1	1	1	3	○	○
MPC-HLO-L2		semi-hermetic compressor type oil pressure switch included LP switch 2 EA, HP switch 1 EA, oil pressure switch 1 EA, FAN switch 2 EA	3		2	1	1	2	○	○
MPC-HLOS		Screw Compressor (oil differential pressure : HP - OP = OPS) HP switch 1 EA, FAN switch 3 EA, LP switch 1 EA, oil pressure 1 EA	3		1	1	1	3	○	○
MPC-HLW		hermetic chiller and AIR, water pressure control compatible HP switch 3 EA,FAN switch 2 EA, LP switch 2 EA, water pressure 1 EA Pressure switch and pressure gauge replacement (air drier, screw chiller type)	3	1	2		1	2	○	○





MPC SERIES	Specifications	Application function	Sensor	OUTPUT					Current (OPTION)	RS-485 (OPTION)
				SP/WP	LP	OP	HP	FAN		
MPC-H3L3	-1.0~50kgf Mpa/Bar/Psig	HP switch 1 EA, FAN switch 2 EA, LP switch 3 EA Low pressure Alternate control	2		3		1	2	○	○
MPC-H4L2		HP switch 1 EA, FAN switch 3 EA, LP switch 2 EA Low pressure Alternate control	2		2		1	3	○	○
MPC-H2L4		HP switch 1 EA, FAN switch 1 EA, LP switch 4 EA Low pressure Alternate control	2		4		1	1	○	○
MPC-H1L5		HP switch 1 EA, LP switch 5 EA Low pressure Alternate control	2		5		1		○	○
MPC-HL6		HP & LP switch Interlocking control, LP switch 6 EA Low pressure Alternate control	2		6				○	○

MPC HLOM



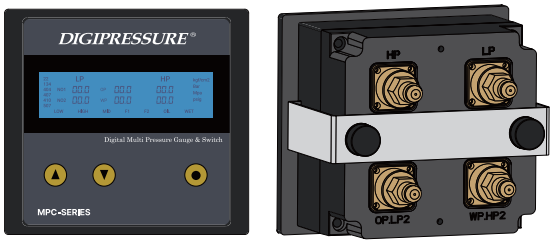
- 4 Pressure Sensors (LP/HP/OP/MP)

  – 2 piston & 2 screw compressor controls
  – 1 LP, 1 HP, 1 OP & 3 FAN relay outputs (alternating control)
  – LP ON / HP OFF delay timers
  – Pressure setting in 0.1 kgf/㎠ increments
  – Selectable units: kgf/㎠, MPa, bar, psig
  – Refrigerant temperature conversion

Replacement



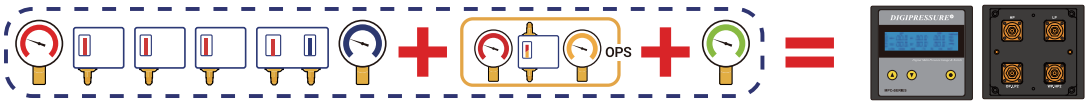
MPC HLOMS



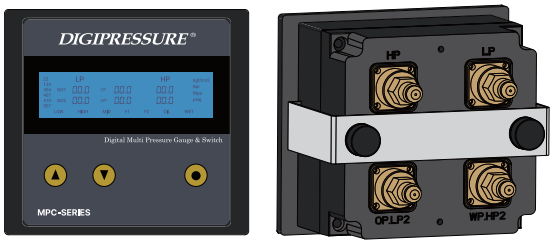
- 4 Pressure Sensors (HP/LP/OP/MP)

  – Built–in oil pressure switch for KOBELCO 2–stage screw compressors
  – 1 HP, 1 LP, 1 OP & 3 FAN relay outputs (HP - OP control)
  – LP ON / HP OFF delay timers
  – Pressure setting in 0.1 kgf/㎠ increments
  – Selectable units: kgf/㎠, MPa, bar, psig
  – Refrigerant temperature conversion

Replacement



MPC HLOW



- 4 Pressure Sensors (HP/LP/OP/MP)

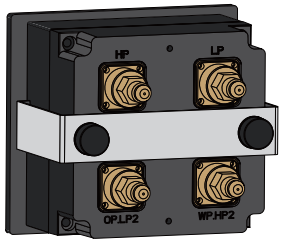
  – Single–stage reciprocating compressor control
  – 1 HP, 1 LP & 3 FAN relay outputs
  – LP ON / HP OFF delay timers
  – Pressure setting in 0.1 kgf/㎠ increments
  – Selectable units: kgf/㎠, MPa, bar, psig
  – Refrigerant temperature conversion

Replacement



MPC H2L2

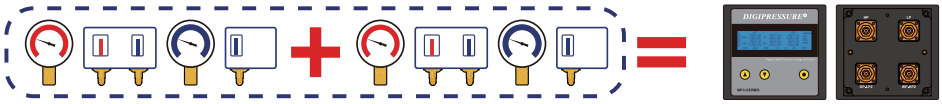




- 4 Pressure Sensors (2 HP / 2 LP)

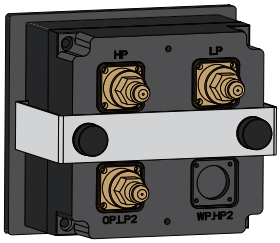
– Dual-cycle control
– 2 HP, 2 LP & 2 FAN relay outputs
– LP ON / HP OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psig
– Refrigerant temperature conversion

Replacement



MPC HLO

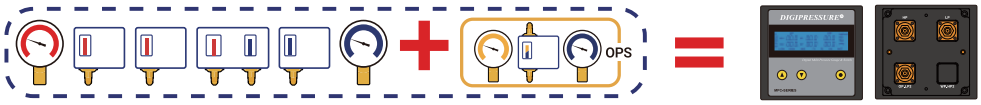




- 3 Pressure Sensors (HP/LP/OP)

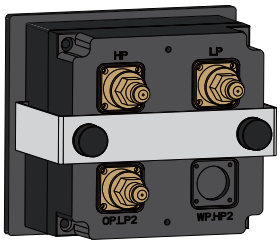
– Reciprocating compressor with built-in oil pressure switch
– 1 HP, 1 LP & 3 FAN relay outputs
– LP ON / HP OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psig
– Refrigerant temperature conversion

Replacement



MPC HLO-L2

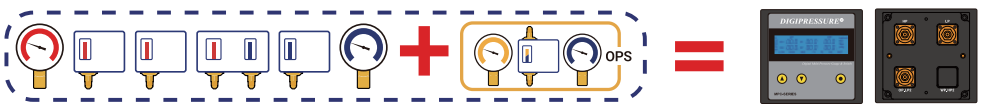




- 3 Pressure Sensors (HP/LP/OP)

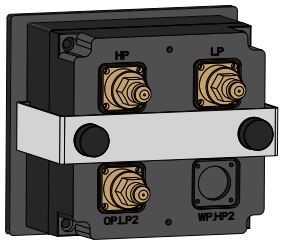
– LP pressure switches for loading/unloading control
– Semi-hermetic reciprocating compressor with oil pressure switch
– 1 HP, 1 LP, 1 OP & 3 FAN relay outputs
– LP ON / HP OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psig
– Refrigerant temperature conversion

Replacement



MPC HLOS

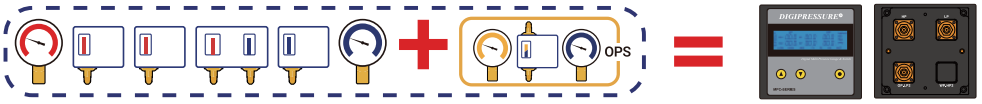




3 Pressure Sensors (HP/LP/OP)

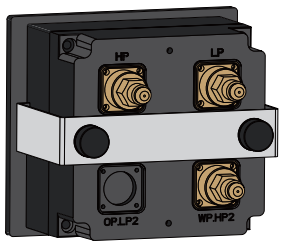
- Single-stage screw compressor with oil pressure switch
- 1 HP, 1 LP, 1 OP & 3 FAN relay outputs
- Differential ON delay timer
- LP ON / HP OFF delay timers
- Pressure setting in 0.1 kgf/㎠ increments
- Selectable units: kgf/㎠, MPa, bar, psig
- Refrigerant temperature conversion

Replacement



MPC HLW





3 Pressure Sensors (HP/LP/WP)

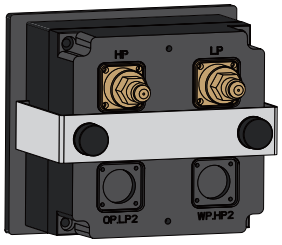
- Air dryer & screw compressor chiller applications
- Combined AIR/WATER pressure control for hermetic compressors
- 1 HP, 2 LP, 1 WP & 2 FAN relay outputs
- LP ON / HP OFF delay timers
- Pressure setting in 0.1 kgf/㎠ increments
- Selectable units: kgf/㎠, MPa, bar, psig
- Refrigerant temperature conversion

Replacement



MPC H3L3

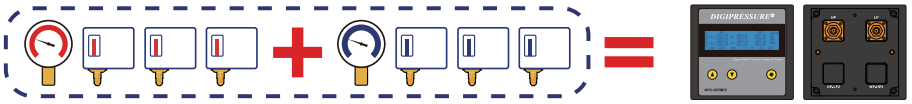




2 Pressure Sensors (HP/LP)

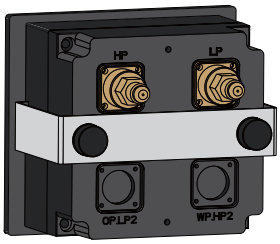
- Screw & hermetic compressor control
- 1 HP, 3 LP & 2 FAN relay outputs
- LP ON / HP OFF delay timers
- Pressure setting in 0.1 kgf/㎠ increments
- Selectable units: kgf/㎠, MPa, bar, psig
- Refrigerant temperature conversion

Replacement



MPC H4L2





- 2 Pressure Sensors (HP/LP)

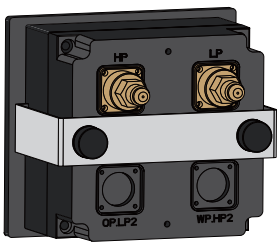
– Multi-compressor control (screw & hermetic compressors)
– 1 HP, 2 LP & 3 FAN relay outputs
– LP ON / HP OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psig
– Refrigerant temperature conversion

Replacement



MPC H2L4

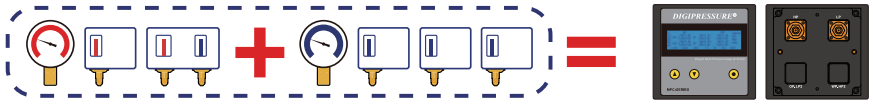




- 2 Pressure Sensors (HP/LP)

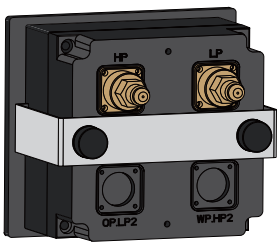
– Multi-unit refrigeration control (screw & hermetic compressors)
– 1 HP, 4 LP & 1 FAN relay outputs
– LP ON / HP OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psig
– Refrigerant temperature conversion

Replacement



MPC H1L5

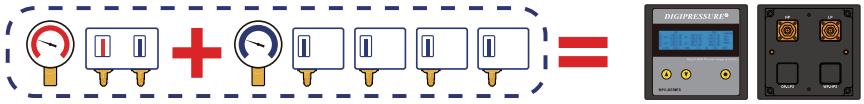




- 2 Pressure Sensors (HP/LP)

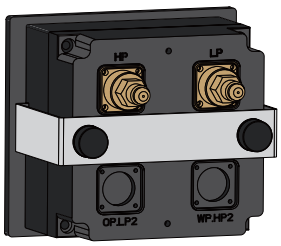
– Screw & hermetic compressor control (water-cooled, 5-stage capacity control)
– 1 HP & 5 LP relay outputs
– LP ON / HP OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psig
– Refrigerant temperature conversion

Replacement



MPC HL6

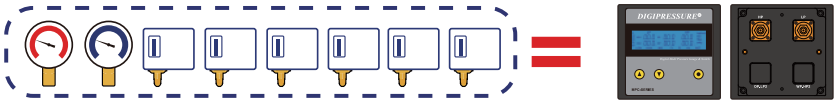




- 2 Pressure Sensors (HP/LP)

– Screw & hermetic compressor control (6-stage capacity control)
– 6 LP relay outputs
– All LP switches OFF upon HP alarm
– LP ON / HP OFF delay timers
– Pressure setting in 0.1 kgf/㎠ increments
– Selectable units: kgf/㎠, MPa, bar, psig
– Refrigerant temperature conversion

Replacement



LPC SERIES

DIFFERENTIAL & LOW PRESSURE CONTROL

LPC-	DIFF-	AD-	CM-	10P-	AC-	①	3M
	①	②	③	④	⑤	⑥	⑦

① Model Configuration

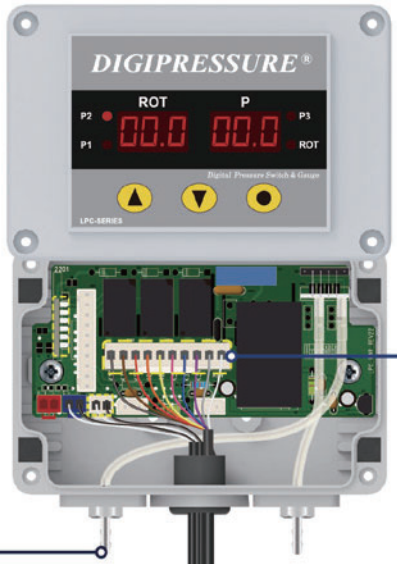
L = Built-in Precision Low Pressure & Differential Pressure Sensor
DIFF = Built-in Precision Differential Pressure Sensor

⑤ Power Supply

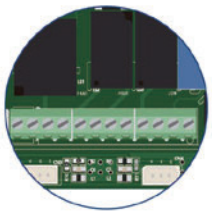
DC = 24V
*Default
AC = 100-240VAC

⑥ Pressure Range

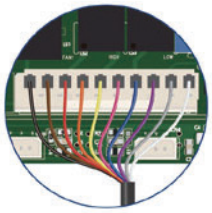
① -50~50
② -100~100
③ -70~600
④ -500~500
*Default
-50~50



Terminal Block Type

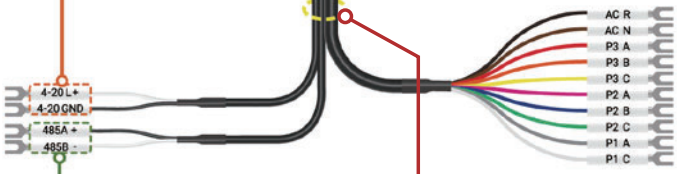


Connector Type



② Output (OPTION)

<Output Option A>
AD : Differential Pressure Current Output



④ Harness TYPE

10P = 10P
Terminal Block Type

③ Communication (OPTION)

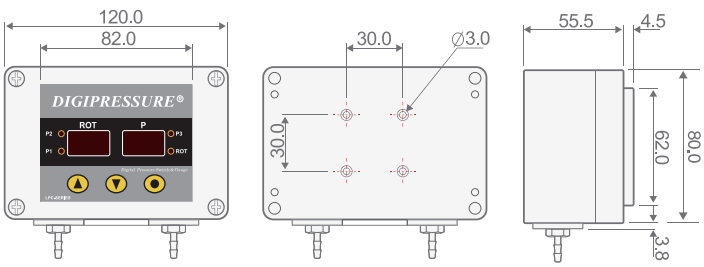
CM = Modbus-RTU

⑦ Cable Length

Other lengths are specified in meters.
*Default : 1.8m Cable

※ Product case color may change without notice.

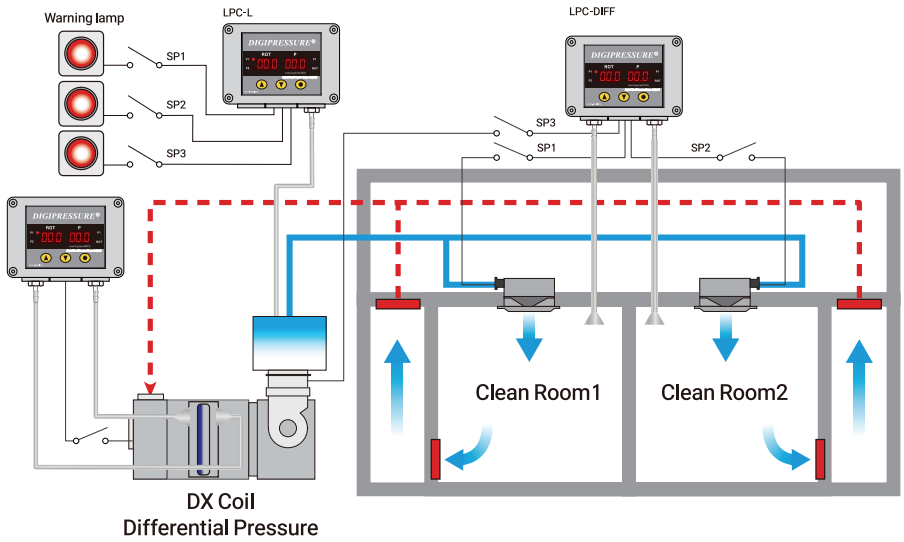
Installation Types



Specifications

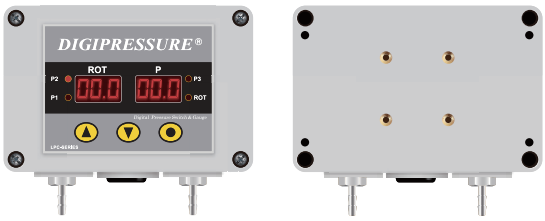
Power Supply	100-240V~ ±10% 50-60hz, (24VDC Optional)
Current Draw	200mA
Display	0.36" 3 Digit FND x 2 for ROT & P
Pressure Range	-100~100 mmAq (mmH2O)
	600 mmAq (6 kPa) Optional
Relay Output	SPDT 250V / 3A
Operating Temp.	-20~60°C RH 60%
Sensor Accuracy	0.5%
Communication	RS-485 (Modbus-RTU)
Current Output	4~20mA (0 to 50 kgf/cm²)

LPC SERIES Applications



LPC SERIES	Specifications	Application function	Sensor	OUTPUT			Current (OPTION)	RS-485 (OPTION)
				P1	P2	P3		
LPC-DIFF (Differential Pressure)	-50~50 mmAq -70~600 mmAq -100~100 mmAq -500~500 mmAq	Coils, filters, chambers, cleanrooms & FAN differential pressure switches	2	1	1	1	O	O
LPC-L (Low Pressure)	-50~50 mmAq -70~600 mmAq -100~100 mmAq -500~500 mmAq	Pump switches & cooler defrost switches (Built-in 3-stage switch)	1	1	1	1	O	O

LPC DIFF



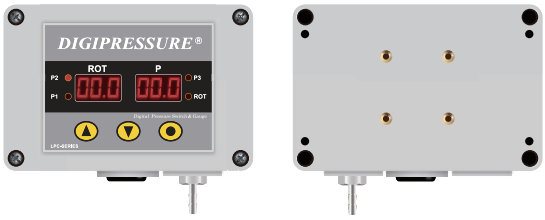
- Built-in Precision Low-Range DP Sensor

– Differential pressure control for air filters, heat exchanger coils, fans, cleanrooms, boiler combustion chambers & filters
– 3 relay outputs
– Differential pressure ON/OFF delay timers
– Pressure setting in 0.01 mmAq increments
– Supports unit cooler defrost control

Replacement



LPC L



- Built-in Precision DP Sensor

– Pressure switches for pumps, air filters & cleanroom chambers
– 3 relay outputs
– Individual ON/OFF delay timers
– Pressure setting in 0.01 mmAq increments
– Supports unit cooler defrost control

Replacement



OPC SERIES

OIL PRESSURE CONTROL

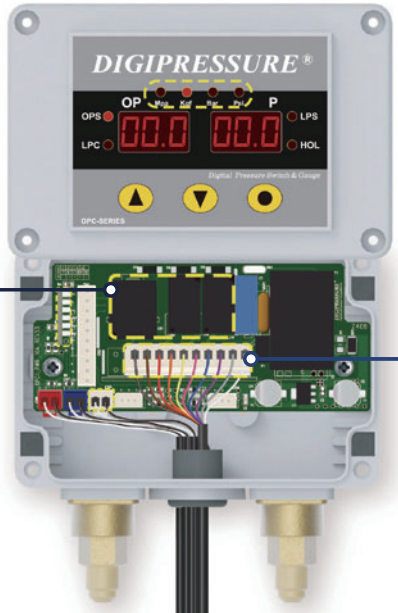
OPC-	L2D1-	AD-	CM-	10P-	AC-	10-	3M
	①	②	③	④	⑤	⑥	⑦

Pressure Unit Display
>MODE SELECT
(Kgf, Mpa, Bar, Psi)
Built-in Pressure Unit conversion

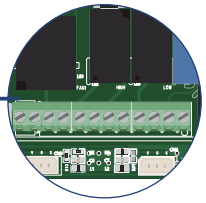
⑤ Power Supply
DC = 24V
*Default
AC = 100-240VAC

⑥ Pressure Range
10 (ORDER)
20
30
*Default
50

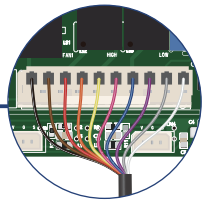
① Model Configuration
L2D1 = Low x2, Differential x1



Terminal Block Type



Connector Type



② Output (OPTION)
<Current Output Options>
AD = Differential Pressure Current
AO = Oil Pressure Current
AP = Low Pressure Current
*User Selectable



④ Harness TYPE
08P = 8P
10P = 10P
Terminal Block Type

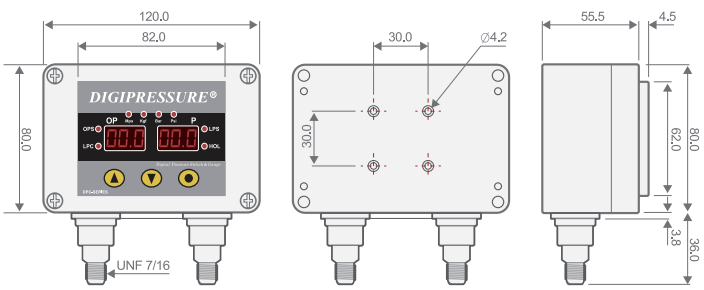
③ Communication (OPTION)
CM = Modbus-RTU

External Operation Switch
>Momentary Contact (Dry Contact)

ⓘ Dotted terminals unused in 8P configuration.

※ Product case color may change without notice.

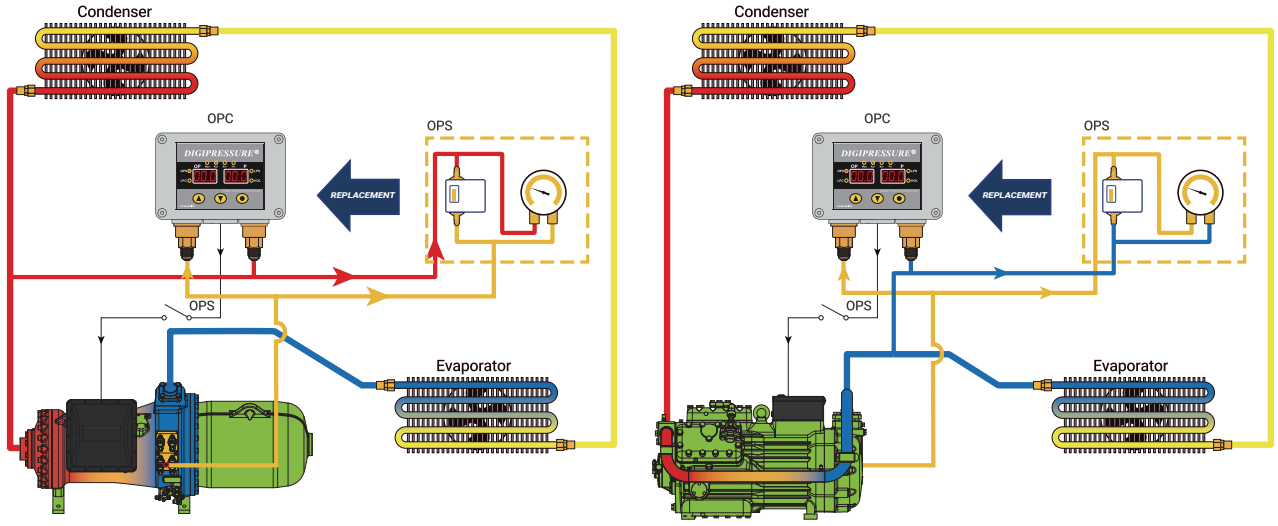
Installation Types



Specifications

Power Supply	100-240V~ ±10% 50-60hz, (24VDC Optional)
Current Draw	200mA
Display	0.36" 3 Digit FND x 2 for OP & P
Pressure Range	-1.0~50Kgf/cm² (Both Low & High)
Relay Output	SPDT 250V / 3A * 2EA
	SPST 250V / 10A * 1EA
Operating Temp.	-20~60°C RH 80%
Sensor Accuracy	0.5%
Communication	RS-485 (Modbus-RTU)
Current Output	4~20mA (0 to 50 kgf/cm²)

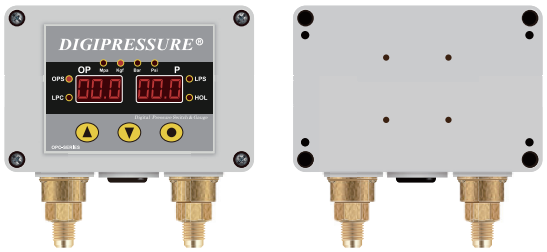
OPC SERIES Applications



OPC SERIES Specifications

OPC SERIES		Specifications	Application function	Sensor	OUTPUT			Current (OPTION)	RS-485 (OPTION)
					OPS	LPS	LPC		
OPC	L2D1	-1.0~10, 20, 30, 50kgf Mpa/Bar/Psi	Oil Differential Pressure Switch for Refrigeration and Fluid Control Filter Systems	2	1	1	1	O	O

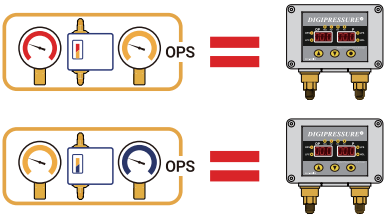
OPC



2 Pressure Sensors (OP/LP)

- Oil pump shutoff / filter differential pressure control output
- 2 LP & 1 DP relay outputs
- LP ON/OFF & OP OFF delay timers
- DP ON delay timer
- Pressure setting in 0.1 kgf/㎠ increments
- Selectable units: kgf/㎠, MPa, bar, psi

Replacement



DVS SERIES

DV S- | DL U- | PNT- | DI1- | AL- | CM

① ②③ ④ ⑤ ⑥ ⑦

④ Sensor Type

PNT : 1 Pressure, 1 Temp. (NTC)
PRT : 1 Pressure, 1 Temp. (PT100)
NTT : 2 Temp. (NTC)
RTT : 2 Temp. (PT100)
PP : 2 Pressure
PPNT : 2 Pressure, 1 Temp. (NTC)
PNTT : 1 Pressure, 2 Temp. (NTC)
PPNTT : 2 Pressure, 2 Temp. (NTC)
PPRTT : 2 Pressure, 2 Temp. (PT100)

●N=(NTC) R=(RTD=PT100Ω)

⑤ External Input SW

DI1 = External Input SW
DI2 = External Input SW
(Option) Temperature / Pressure

⑦ Communication

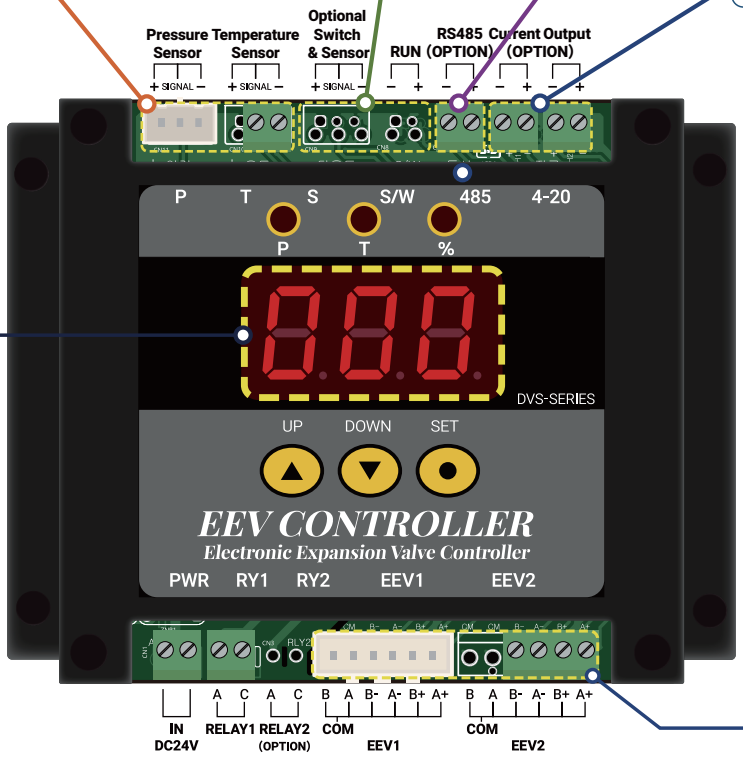
OPTION
Blank : No Communication
CM = Modbus-RTU

⑥ Output (OPTION)

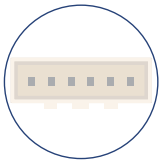
<Output option A>
AH = High 4-20mA
AL = Low 4-20mA
AHL = High/Low 4-20mA

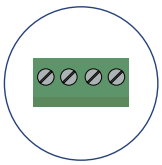
① Display TYPE

FND TYPE = DVS
LCD TYPE = DLS



Unipolar

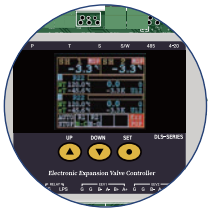




FND TYPE(DVS)



LCD TYPE(DLS)



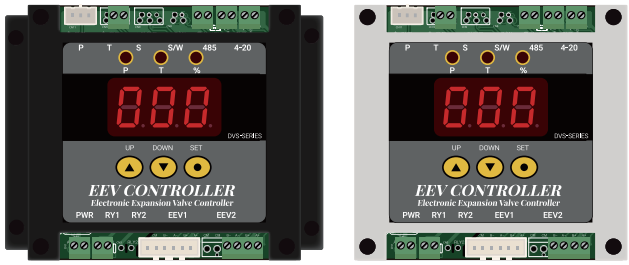
② Model Type

DL : EEV 2-Point Control
SL : EEV 1-Point Control

③ EEV Type

U = Unipolar
B = Bipolar
C = Bipolar C
> Danfoss C TYPE
> Emerson EX Series

CASE TYPE



Standard Model | Slim Model

DVS SERIES

ⓘ This product requires an external DC 24V power supply via a transformer or SMPS.

DVS SERIES	Specifications	SENSOR (P1/T1)	OUTPUT			Current (OPTION)	RS-485 (OPTION)
			Relay	EEV	INPUT		
DVS-DL DLS-DL	DUAL Electronic Expansion Valve Controller	1 / 1	1	2	1	O	O
DVS-SL DLS-SL	SINGLE Electronic Expansion Valve Controller	1 / 1	1	1	1	O	O

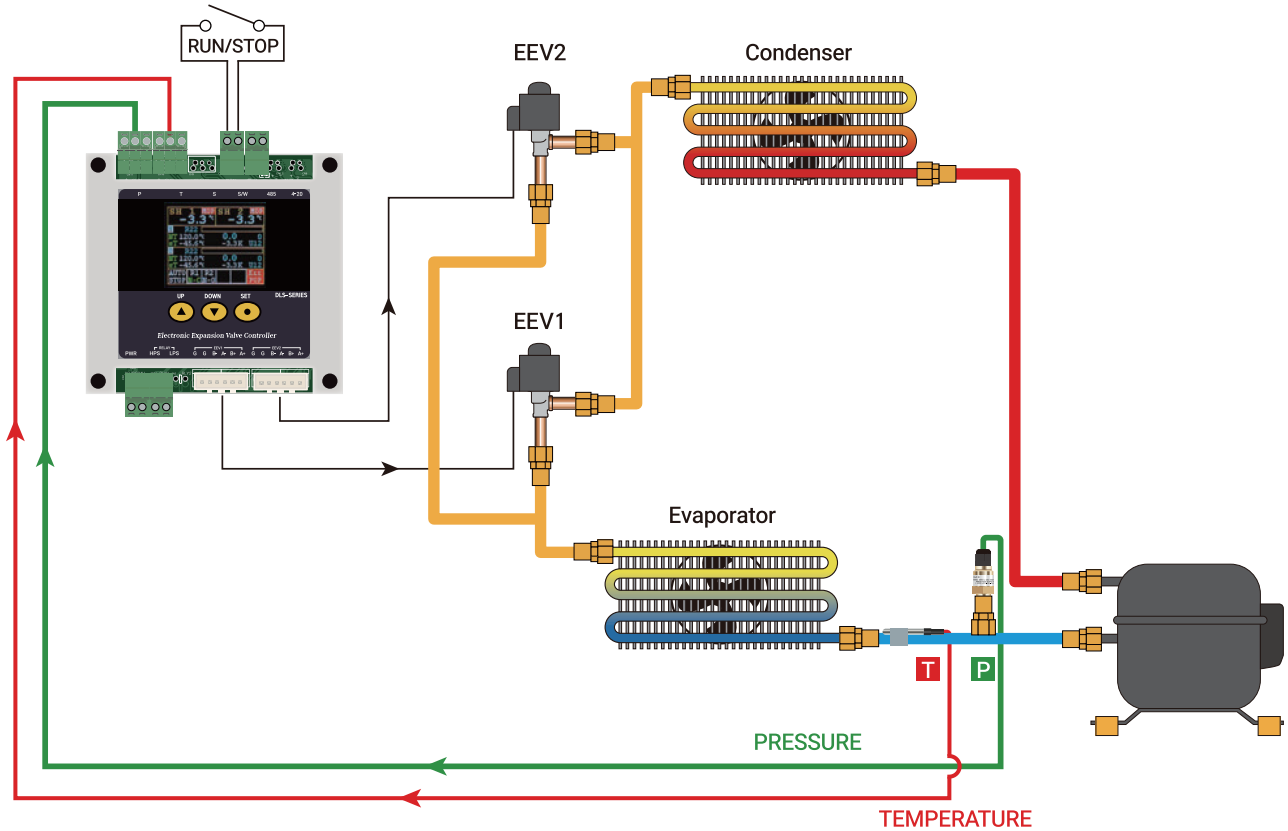
※ Product case color may change without notice.

Compatible EEV Manufacturers

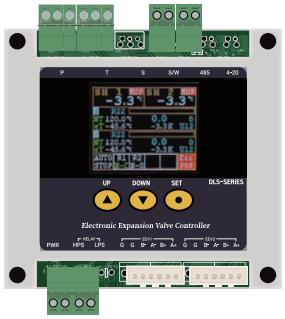
U-TYPE (Unipolar)	B-TYPE (Bipolar)	C-TYPE (High Current)
SAGINOMIYA FUJIKOKI SANHUA	Danfoss SPORLAN	EMERSON EX-TYPE Danfoss C-TYPE

※ For other EEV manufacturers, please contact us.

DLS, DVS Applications



DLS, DVS



▲LCD DLS TYPE

C-Channel Only



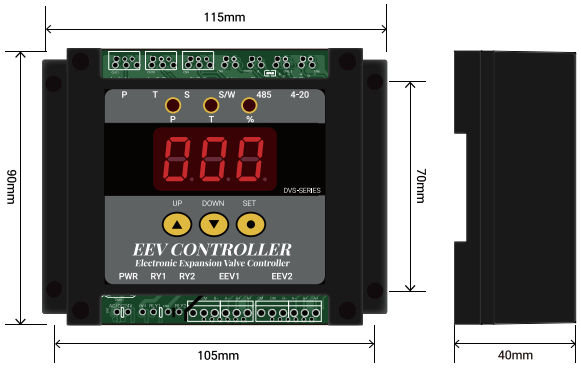
▲FND DVS TYPE

Wall Mount / C-Channel

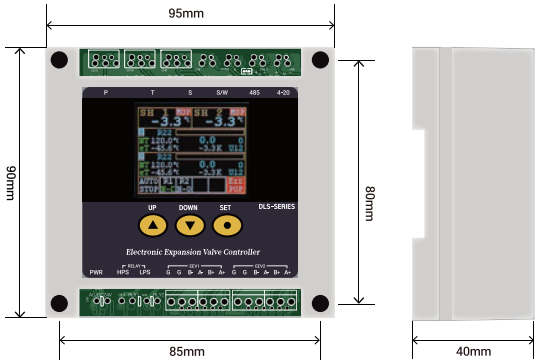
- Electronic Expansion Valve (EEV) Controller

– EEV controller for superheat & capacity control in refrigeration, cooling & heat pump systems
– Supports continuous control, including Hot Gas Bypass
– Applicable to HVAC, cooling, heat pumps, cold storage, showcases & related equipment
– Compatible with Unipolar & Bipolar EEVs
– Supports various EEV brands
– Control modes: Superheat / Manual / Forced
– RS-485 (Modbus) communication

DLS, DVS Dimensions



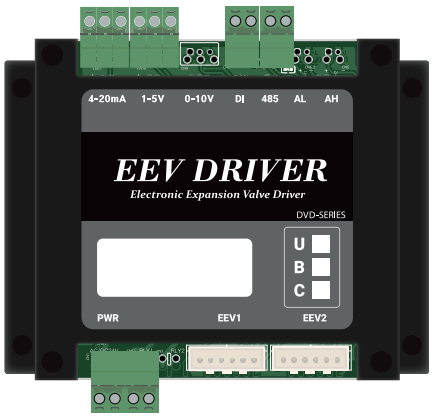
Standard Model



Slim Model

DVD SERIES

EEV DRIVER



Power Supply	DC 24V, 1A (Including EEV Power)
Control Mode	Forced Opening Ratio Control
Input	1–5V, 4–20mA, 0–10V (Optional)
EEV	Unipolar/Bipolar Step Motor, Max. 600mA
Drive	1–2 or 2-Phase, 100–9900 Pulses, 10–500 PPS 1/1000, Opening Ratio: 0–100%
Operating Temp.	-10 to 50°C (No Condensation)
Storage Temp.	-10 to 60°C (RH ≤90%)

DPF SERIES

FAN SPEED CONTROL

DPF-	LH-	AH-	CM-	10P-	AC-	50-	3M
	①	②	③	④	⑤	⑥	⑦

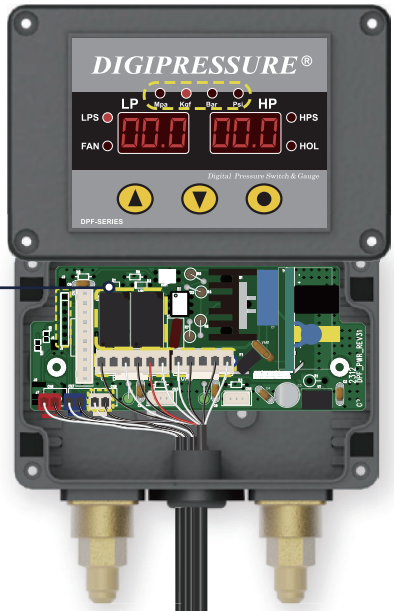
Pressure Unit Display
>MODE SELECT
(Kgf, Mpa, Bar, Psi)
Built-in Pressure Unit conversion

⑥ Power Supply
*Default
AC = 100-240VAC

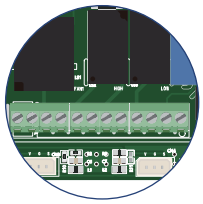
① Model Configuration
LH = Low x 1, High x 1
L = Low x 1

⑦ Pressure Range
10 (ORDER)
20
30
*Default
50

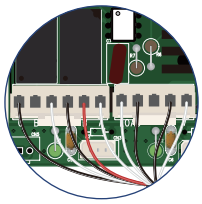
② Output (OPTION)
<Output option A>
H = High 4-20mA
L = Low 4-20mA
HL = High/Low 4-20mA
HH = High 2CH 4-20mA
<Output option OP>
OP = Ext. Switch
OPH = Ext. Switch + High Current

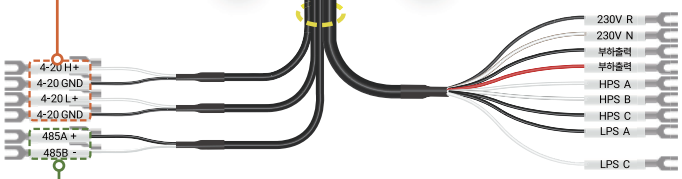


Connector Type



Terminal Block Type

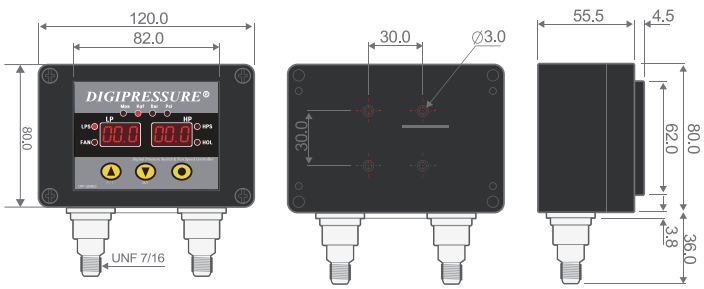




④ Harness TYPE
10P = 10P
Terminal Block Type

③ Communication (OPTION)
CM = Modbus-RTU

Installation Types

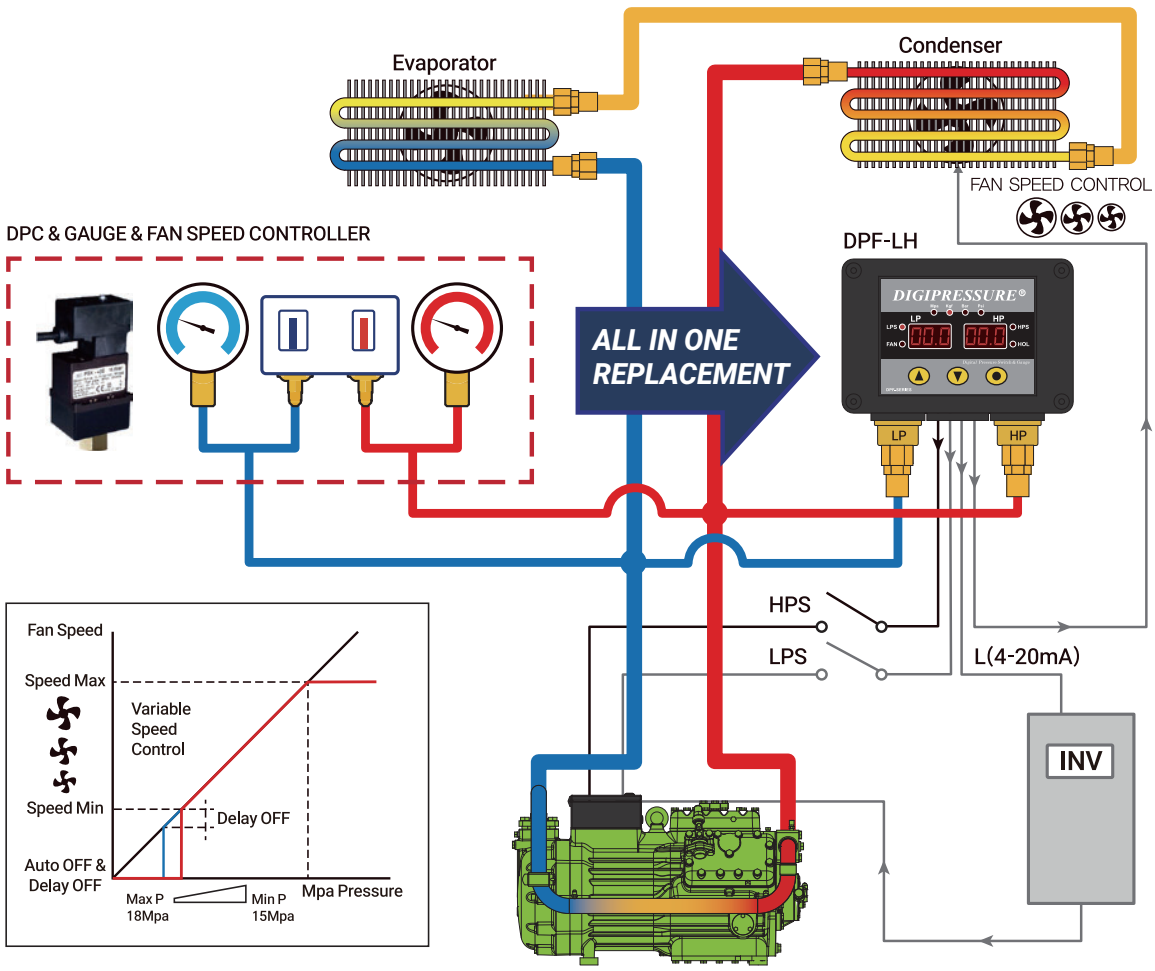


Specifications

Power Supply	100-240V~ ±10% 50-60hz
Current Draw	200mA
Display	0.36" 3 Digit FND x 2 for LP & HP
Pressure Range	-1.0~50Kgf/cm² (Both Low & High)
Relay Output	LPS, HPS : SPDT 250V / 3A * 2EA
	FAN SPEED CONTROL : 220V 300W
Operating Temp.	-20~60°C RH 80%
Sensor Accuracy	0.5%
Communication	RS-485 (Modbus-RTU)
Current Output	4~20mA (0 to 50 kgf/cm²)

※ Product case color may change without notice.

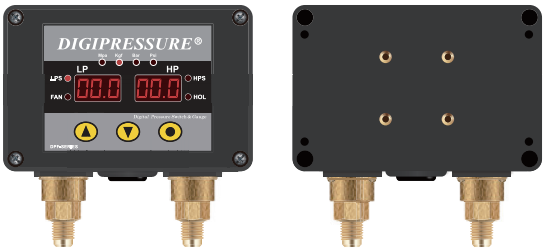
DPF LH Applications



DPF Specifications

DPF SERIES	Specifications	Application function	Sensor	OUTPUT			Current (OPTION)	RS-485 (OPTION)
				Output	Input	Phase		
DPF-LH	-1.0~50 kgf/Mpa/Bar/Psi	FAN (PUMP) Speed Control, 220V 300W 1 HPS & 1 LPS Output 1 External Input (ON/OFF for Defrost)	2	2	1	Single	O	O
DPF-L	-1.0~10, 20, 30, 50 kgf/Mpa/Bar/Psi	FAN (PUMP) Speed Control, 220V 300W 2 Relay Outputs 1 Input Contact	1	2	1	Single	O	O

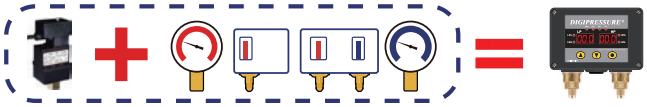
DPF LH



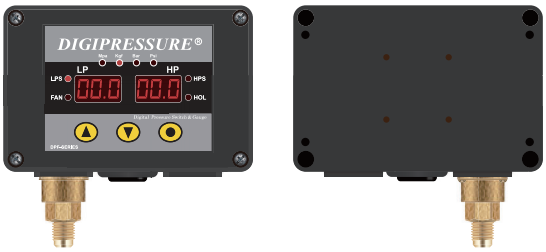
- 2 Pressure Sensors (LP/HP)

  – Small refrigeration unit & condenser FAN speed control (Single-phase 220V, Max. 300W)
  – LP: Inverter PID stepless capacity control
  – DPS (1 fluid pressure switch), FAN speed control 300W
  – LP ON / HP OFF delay timers
  – Pressure setting in 0.1 kgf/㎠ increments
  – Selectable units: kgf/㎠, MPa, bar, psi

Replacement



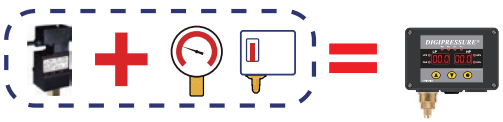
DPF L



- 1 Pressure Sensor (LP)

  – Small refrigeration unit & condenser FAN speed control (Single-phase 220V, Max. 300W)
  – 1 LP relay output & 1 FAN speed control output
  – LP ON / HP OFF delay timers
  – Pressure setting in 0.1 kgf/㎠ increments
  – Selectable units: kgf/㎠, MPa, bar, psi

Replacement



DPF2 SERIES

FAN SPEED CONTROL

DPF2- | 220- ① | ST- ② | 6A- ③ | DO- ④ | CM ⑤

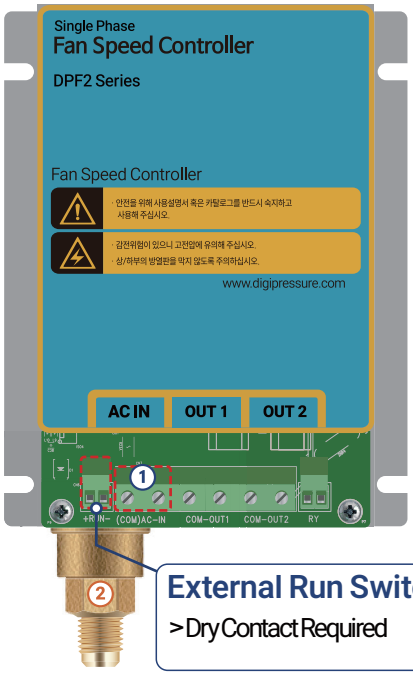
① Input Power
110 : 110[V] 1Ø
220 : 220[V] 1Ø

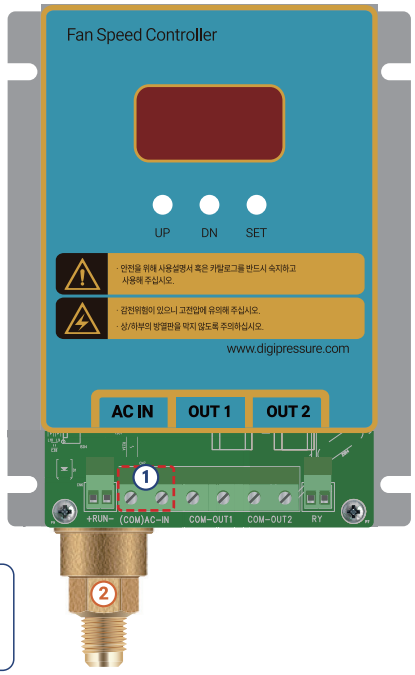
② Model Type
ST : Standalone Type

③ Triac Rated Current [A]
(XX = XX[A])
12 = 3[A]
16 = 5[A]
24 = 6[A]
26 = 8[A]

④ Output Relay (OPTION)
DO : 1 Relay Output

⑤ Communication (OPTION)
Blank : No Communication
CM = Modbus-RTU



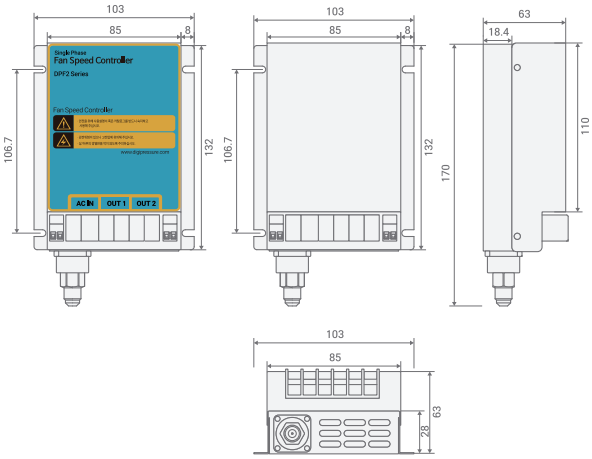


▲ Upcoming Models



▲ Upcoming Models

Installation Types



Specifications

Motor	HP(110/220)	2 / 3 [HP]
	Kw	1.5 / 2.2 [Kw]
Output	FLA[A](110/220)	5 / 7 / 8 [A]
	Input Voltage [V]	Single-phase 121 ~ 240VAC ±10% At 260V input, 25°C ambient
	Rated Frequency	50~60 [Hz]
Operation	Control Method	Phase Control
	Input	RUN/STOP Switch (Dry Contact)
Structure & Environment	Operating Temp.	-10°C ~ 60°C
	Storage Temp.	-20°C ~ 85°C
	Humidity	≤65% RH (Non-condensing)
	Installation Site	Indoor, free from corrosive/flammable gases, oil mist & dust
Weight		Approx. 600g

※ Product case color may change without notice.

DPF3 SERIES

FAN SPEED CONTROL

DPF3- | 380- | ST- | 6A- | DO- | CM

1 2 3 4 5

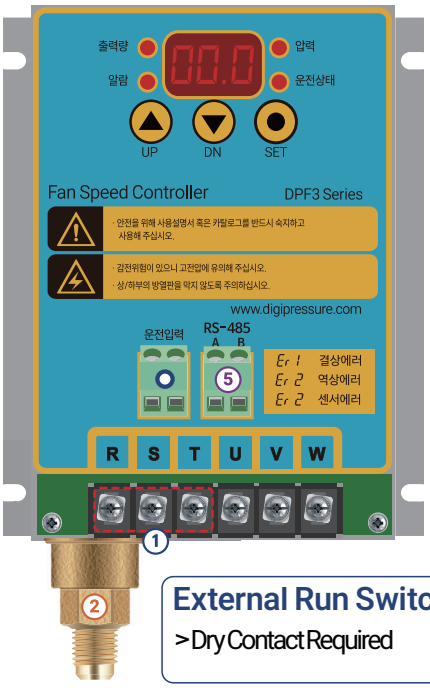
1 Input Power
220 : 220[V] 3Ø
380 : 380[V] 3Ø
440 : 440[V] 3Ø
480 : 480[V] 3Ø

2 Model Type
ST : Standalone Type

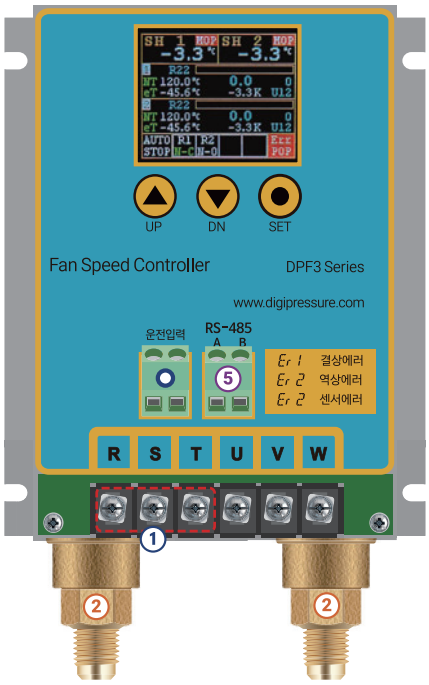
3 Triac Rated Current [A]
(XX = XX[A])
12 = 3[A]
16 = 5[A]
24 = 6[A]
26 = 8[A]

4 Output Relay (OPTION)
DO : 1 Relay Output

5 Communication (OPTION)
Blank : No Communication
CM = Modbus-RTU

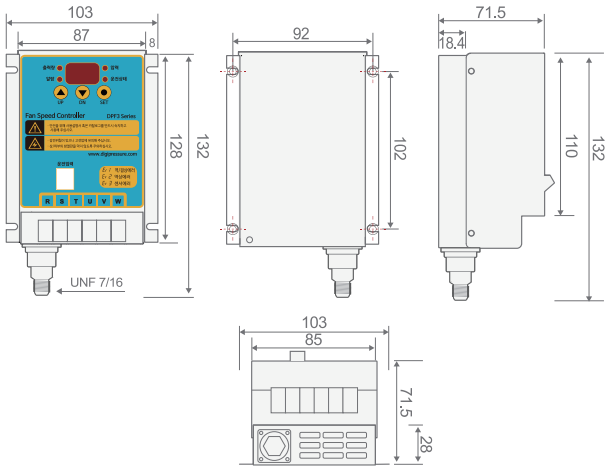


External Run Switch
> Dry Contact Required



▲ Upcoming Models

Installation Types



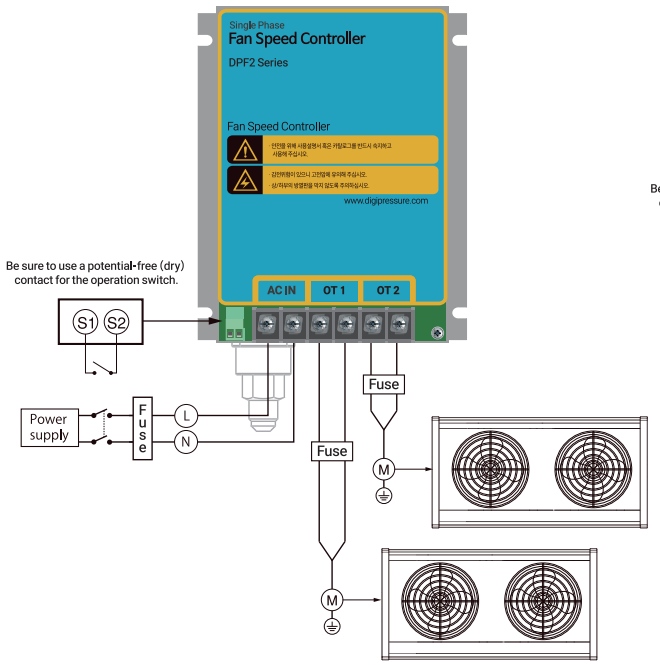
Specifications

Motor	HP (220/380/440V)	2 / 3 / 3.5 HP
	kW (220/380/440V)	1.5 / 2.2 / 2.5 kW
Output	Rated Capacity [kVA]	1.8 / 2.8 / 3.0 kVA (220/380/440V)
	Rated Current [A]	5 / 7 / 8 A (220/380/440V)
	Min. Output Voltage [V]	121V, 3-Phase ±10% (380V Input, 25°C)
	Max. Output Current [A]	380V, 3-Phase -5% (380V Input, 25°C)
	Rated Voltage [V]	3-Phase 220/380/440VAC (±5%)
	Rated Frequency [Hz]	50~60 [Hz]
Control	Control Method	Phase Control
Operation	Operation Mode	Pressure Sensor / Comm. (Optional)
	Input	RUN/STOP Switch (Dry Contact)
Environment	Operating Temp.	-10℃ ~ 60℃
	Storage Temp.	-20℃ ~ 85℃
	Humidity	≤65% RH (Non-condensing)
	Atmospheric Pressure	70~106 kPa
	Installation Site	Indoor, free from corrosive/flammable gases, oil mist & dust
Weight		

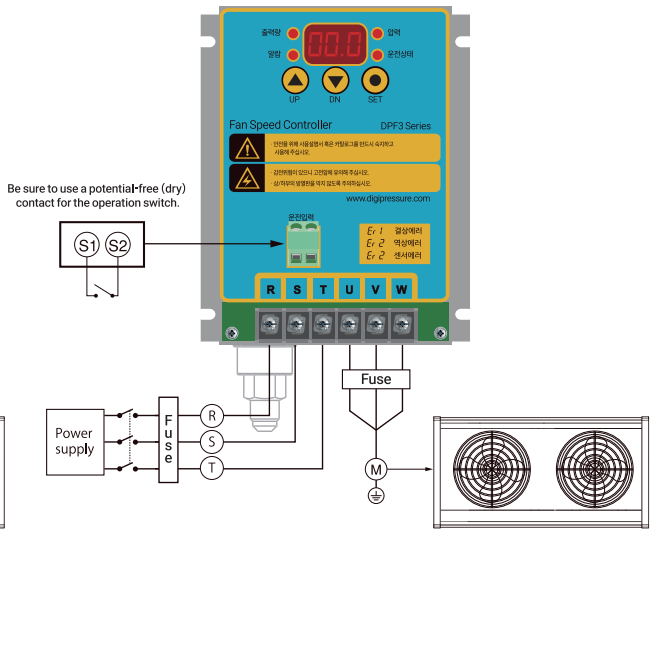
※ Product case color may change without notice.

Wiring Diagram

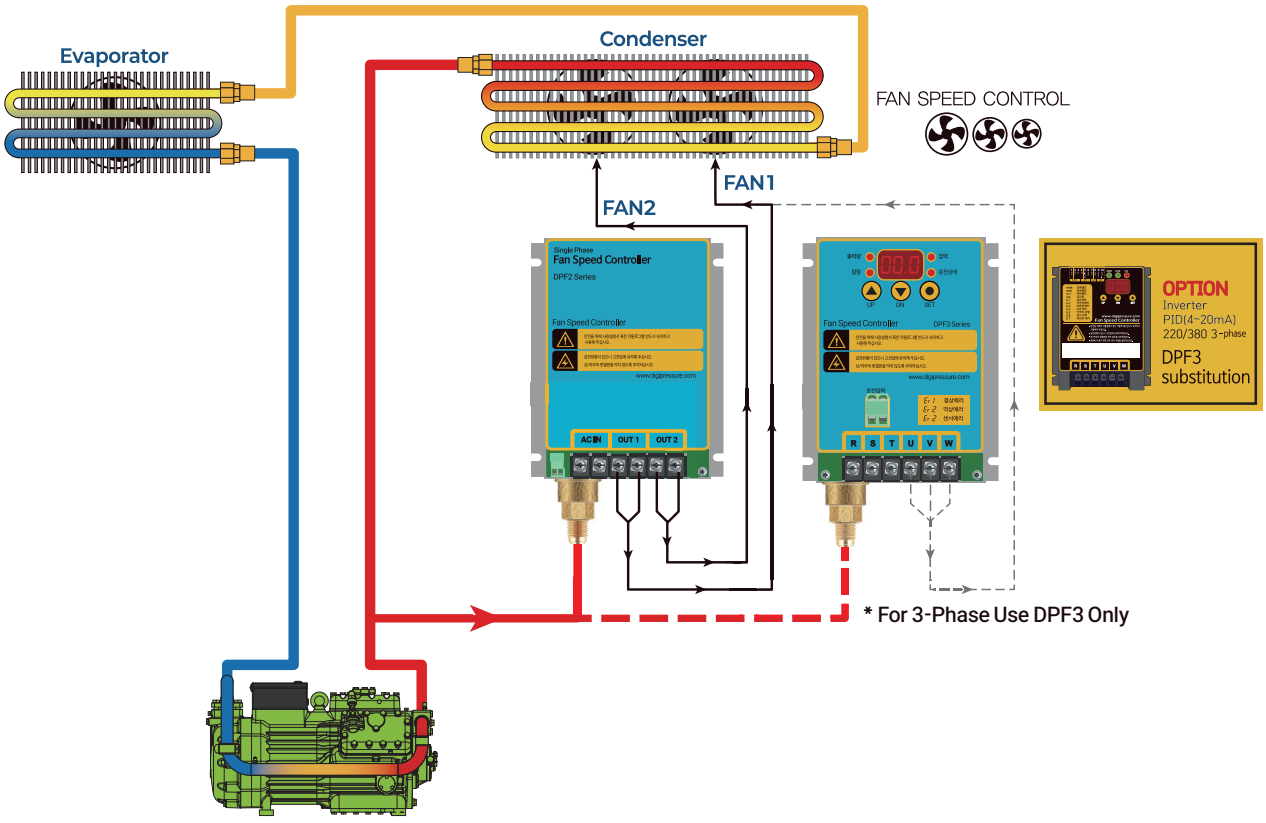
Single Phase



Three Phase



DPF Applications



INV SERIES

FAN SPEED CONTROL

INV- ① ST- ② 380- ③ 08- ④ AI- ⑤ CM

① Model Type
ST : Standalone Type

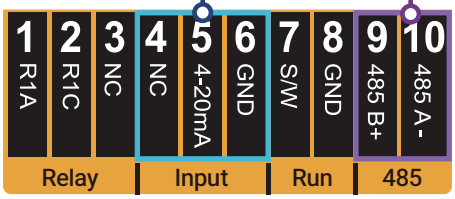
② Input Power
380 : 380VAC

③ Capacity
08 : 10A = 1HP
15 : 15A = 2HP



⑤ Communication (OPTION)
Blank : No Communication
CM = Modbus-RTU

④ Input (OPTION)
Current Input (SA Type)

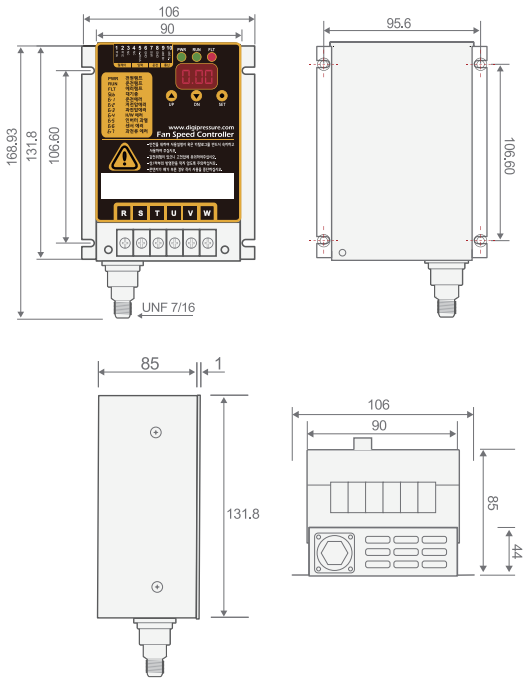


Specifications

Motor	HP (380V)	1 / 2 HP
	kW (380V)	0.75 / 1.5 Kw
Output	Rated Capacity [kVA]	1.9 / 3.9 kVA
	Rated Current [A]	2.5 / 6 A
	Max. Output Freq. [Hz]	100 Hz ±0.2%
	Max. Output Current [A]	380V, 3-Phase -10%
	Rated Voltage [V]	3-Phase 380VAC (+10%, -15%)
	Rated Frequency [Hz]	50~60 Hz (±5%)
Control	Control Method	V/F Control
	V/F Pattern	Linear
	Torque Boost	Auto Torque Boost
Operation	Operation Mode	Terminal, Sensor Input, Comm. (OPT.)
	Frequency Setting	4~20mA Input, Pressure Sensor (OPT.)
	Input	RUN/STOP Switch (Dry Contact)
	Alarm Output	Dry Contact, AC250V 1A Max.
	Control Function	Linear, PID (Sensor OPT.)
Protection	Trip	Operation Error, Over/Undervoltage, Overcurrent, Overheat, Sensor Fault
Environment	Operating Temp.	-10°C ~ 50°C
	Storage Temp.	-20 ~ 65°C
	Humidity	≤65% RH (Non-condensing)
	Atmospheric Pressure	70~106 kPa
	Installation Site	Indoor, free from corrosive/flammable gases, oil mist & dust
Weight		Approx. 1.2 kg

※ Product case color may change without notice.

Installation Types



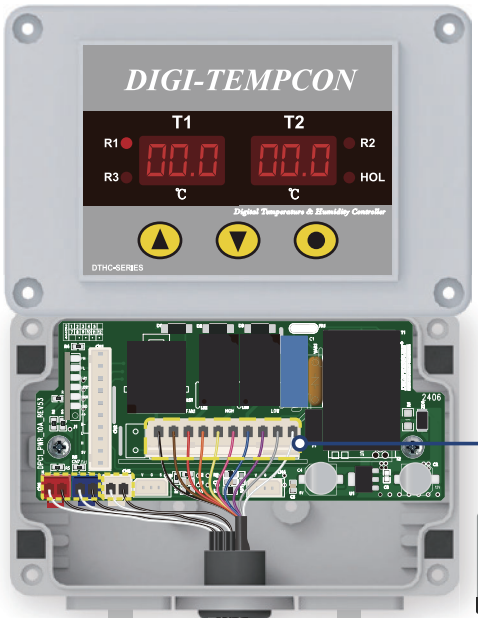
DTC SERIES

DIGITAL TEMPERATURE CONTROL

DTC-	DUAL-	AHL-	CM-	10P-	AC
	❶	❷	❸	❹	❺

❶ DTC Model Type

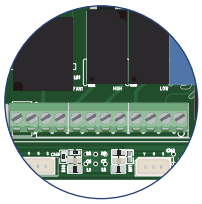
DUAL : 2 Temperature Sensors
SIG : 1 Temperature Sensor



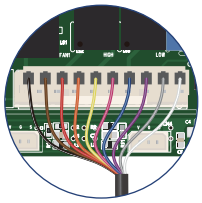
❺ Power Supply

DC = 24V
*Default
AC = 100-240VAC

Terminal Block Type

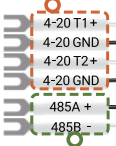


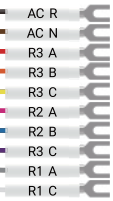
Connector Type



❷ Output (OPTION)

<Output option A>
AH : HT Current
AL : LT Current
AHL : HT / LT Current





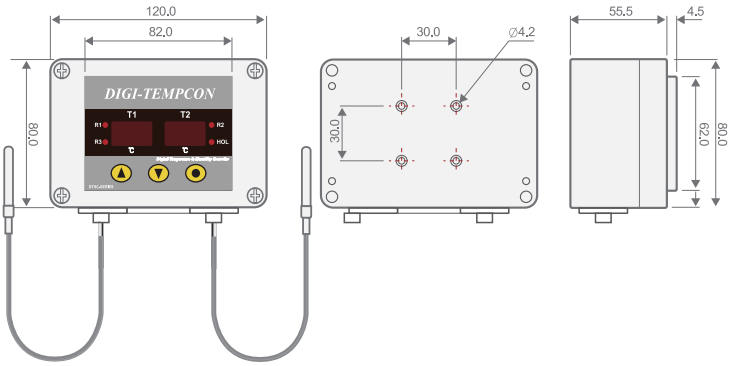
❹ Harness TYPE

10P = 10P
Terminal Block Type

❸ Communication (OPTION)

CM = Modbus-RTU

Installation Types



Specifications

Power Supply	100-240V~ ±10% 50-60hz, (24VDC Optional)
Current Draw	200mA
Display	0.36" 3 Digit FND x 2 for T1 & T2
Temp. Range	-40 ~ 120°C (Both T1 & T2)
Relay Output	SPDT 250V / 3A * 2EA
	SPST 250V / 10A * 1EA
Operating Temp.	-20~60°C RH 80%
Sensor Accuracy	2%
Communication	RS-485 (Modbus-RTU)
Current Output	4-20mA (-40 ~ 120°C)

※ Product case color may change without notice.

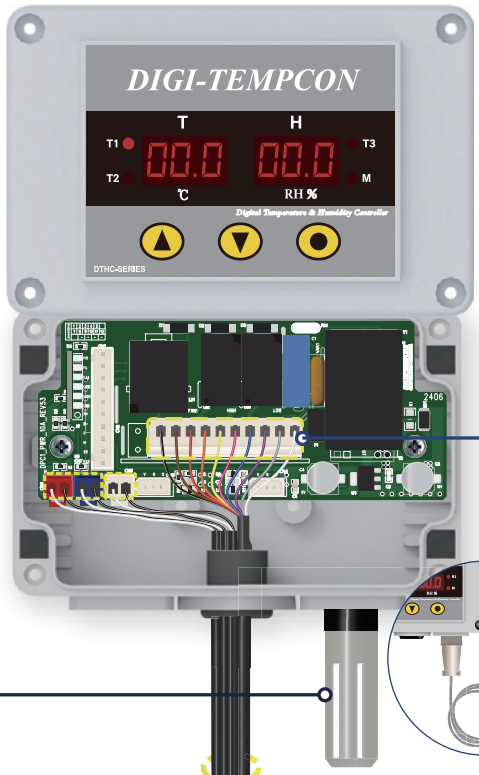
DTHC SERIES

TEMPERATURE & HUMIDITY CONTROL

DTHC-	ST-	ATH-	CM-	10P-	AC
	❶	❷	❸	❹	❺

❶ DTHC Model Type

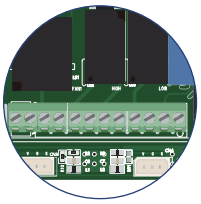
SEP : Separate Sensor Type
SHORT : Integrated Sensor Type



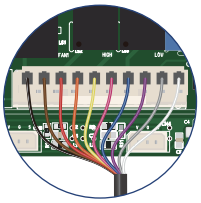
❺ Power Supply

DC = 24V
*Default
AC = 100-240VAC

Terminal Block Type

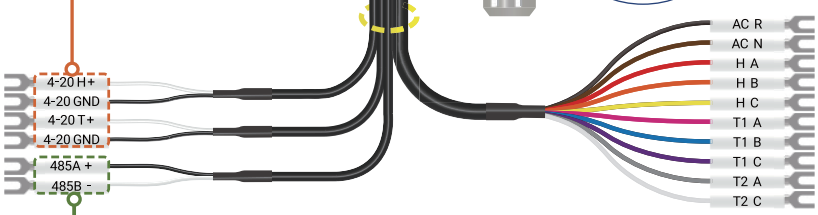


Connector Type



❷ Output (OPTION)

<Output option A>
AT : Temperature Current
AH : Humidity Current
ATH : Temperature / Humidity Current



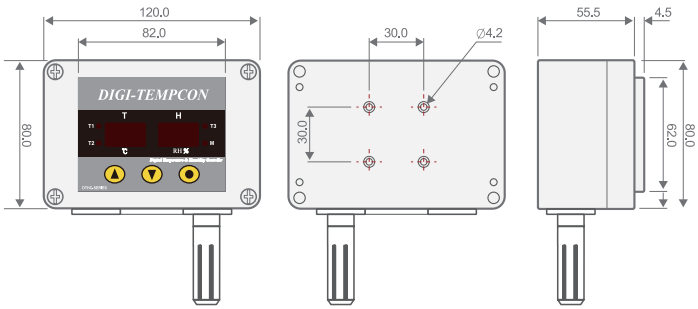
❹ Harness TYPE

10P = 10P
Terminal Block Type

❸ Communication (OPTION)

CM = Modbus-RTU

Installation Types



Specifications

Power Supply	100-240V~ ±10% 50-60hz, (24VDC Optional)
Current Draw	200mA
Display	0.36" 3 Digit FND x 2 for Temp. & Humd.
Temp. Range	-40 ~ 80°C
Humd. Range	0.0 ~ 99.9% RH
Relay Output	SPDT 250V / 3A * 2EA
	SPST 250V / 10A * 1EA
Operating Temp.	-20~60°C RH 80%
Sensor Accuracy	Temp. ±0.5°C, RH ±5% (at 25°C)
Communication	RS-485 (Modbus-RTU)
Current Output	4~20mA (-40 ~ 120°C)

※ Product case color may change without notice.

DTHC Specifications

DTHC SERIES		Specifications	Application function	Sensor	OUTPUT			Current (OPTION)	RS-485 (OPTION)
					T1	T2	H		
DTHC	ST	Temp.: -30 to 120°C RH: 0.0–99.9%	Ambient Temp. & Humidity Monitoring	1	1	1	1	O	O
	SEP							O	O

DTHC Models & Features



▲Integrated Type (ST)



▲Separate Sensor Type (SEP)

- 1 Temp./Humidity Sensor (Integrated)

– 2 Temp. & 1 Humidity outputs
– Temp. setting in 0.1° C increments
– Humidity setting in 0.1% increments
– Temp. Range: –30 to 120℃
– Humidity Range: 0.0 ~ 99.9% RH

– Power: 100 ~ 230VAC / 24VDC ±10%, 50 ~ 60Hz
– Operating Range: –20 to 80° C / 10 ~ 90% RH

ACCESSORY

GPTM

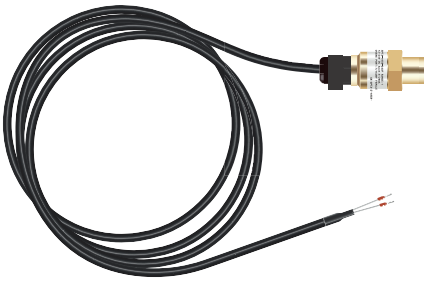


※ Voltage/Current Output Pressure Transmitter Module

Pressure Sensor

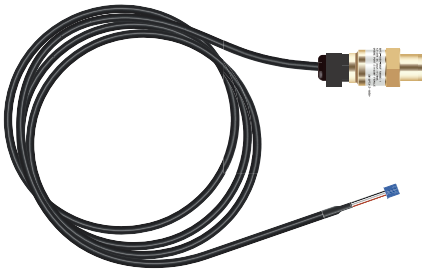


GPTA



※ Current Output Pressure Transmitter

GPTV



※ Voltage Output Pressure Transducer

Pressure Switch



Pressure Switch (Weld Type)



Spark Suppressor



Temp. Sensor (NTC)



Level Switch



Water Flow Switch



EEV (Automatic)



※ Supports Unipolar & Bipolar EEVs

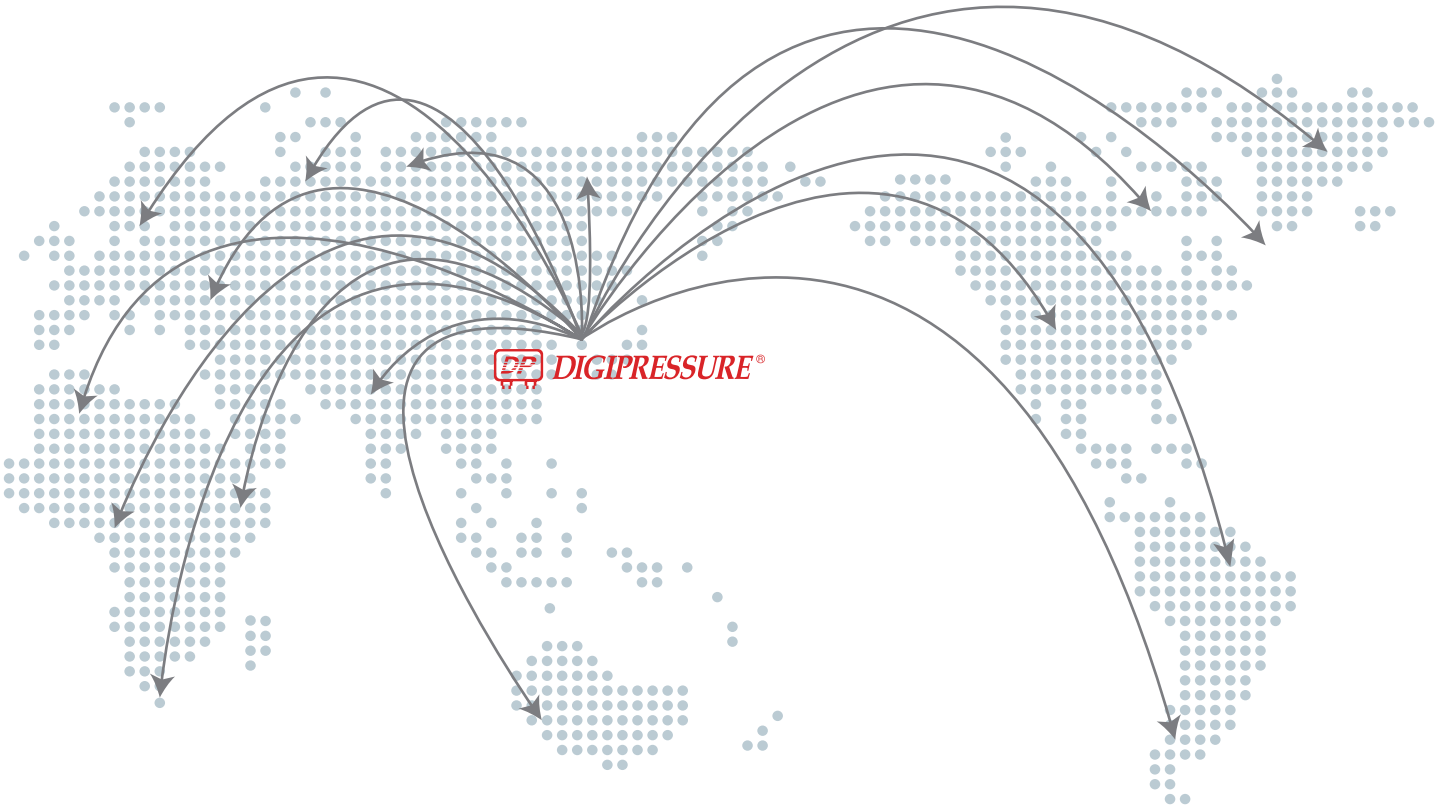
EEV (Gear Type)



※ Supports Unipolar & Bipolar EEVs

Memo

D I G I P R E S S U R E



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