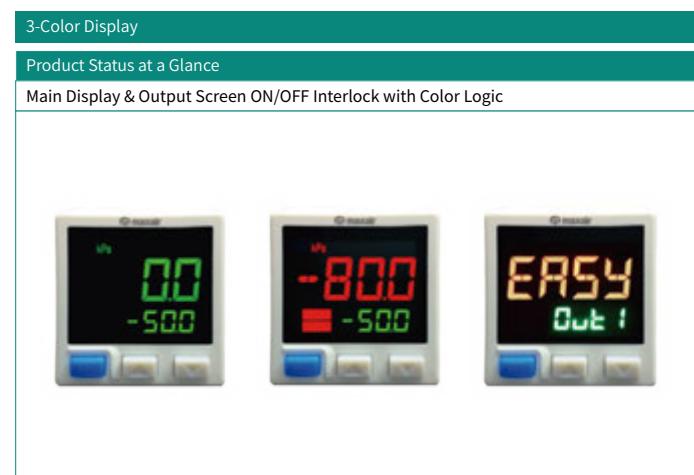
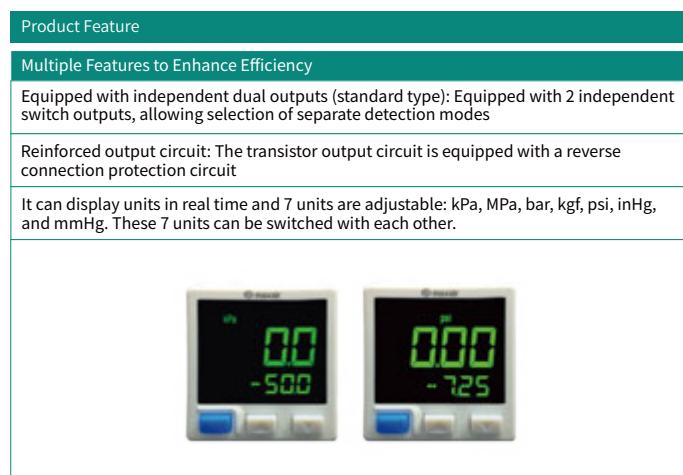
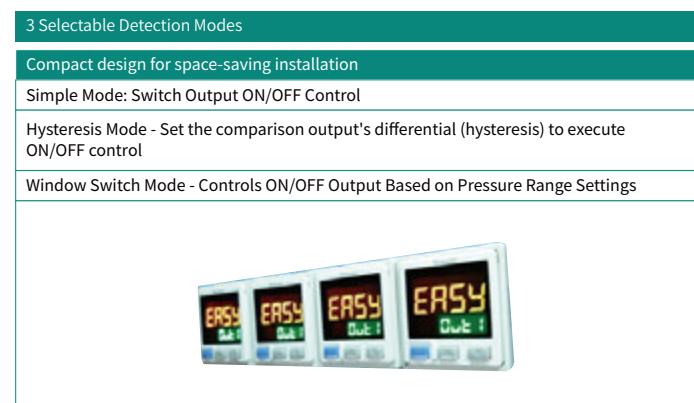
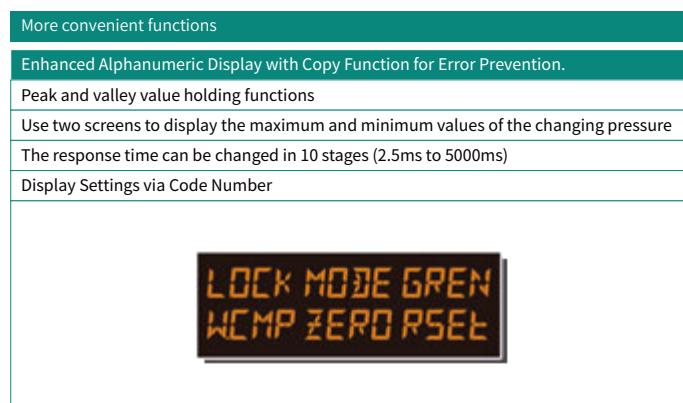
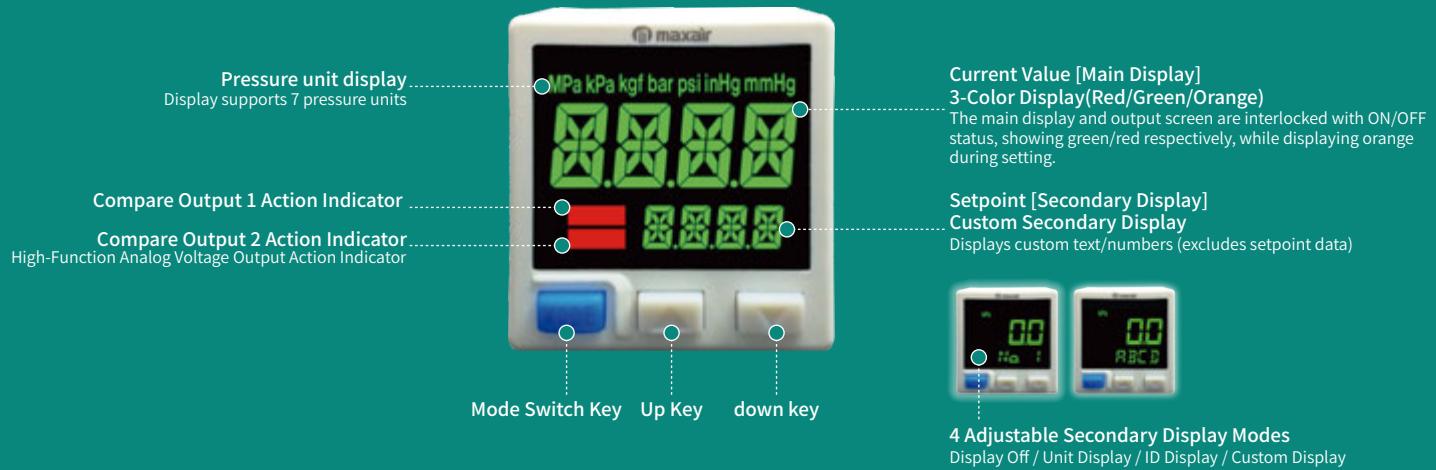


## ► MPX Series (High-precision, Three-color, Dual Digital Display Pressure Switch)

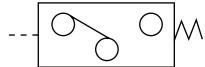


## Digital Pressure Sensor

## MPX SERIES



## Symbol



## Standard Specifications

Item	Standard Type	
	For low pressure use: MPX-R01	For high pressure use: MPX-R01
Pressure Sensing Element	Diffused semiconductor pressure sensor	
Applicable Fluids	Air / Non-Corrosive Gas	
Pressure Type	Gauge pressure	
Rated Pressure Range	-101.3~+101.3kPa	-101.3kPa~+1MPa
Set Pressure Range	-101.3~+101.3kPa	-101.3kPa~+1MPa
Display Unit	kPa	MPa
Minimum Display Unit	0.1kPa	0.001MPa
Unit Switching Function	Mpa, kPa.kgf/cm <sup>2</sup> , bar, psi, mmHg, inchHg	
Guaranteed Withstand Pressure	200kPa	1.5MPa
Repeatability	±0.1% FS (within ±2 digits)	±0.2% FS (within ±2 digits)
Temperature Characteristics(Referenced at +20°C)	Within ±0.5% FS	Within ±1% FS
Display	4-digit + 4-digit 3-color LCD(Display update cycle: 250ms, 1000ms selectable via operation keys)	
Indicator Lights	Red, green, orange LEDs(Comparison Output 1 and 2 action indicators: Lights up when output is ON)	
Power Supply	12~24V DC ±10%, ripple P-P ≤10%	
Power Consumption	Normal mode: ≤840 mW (≤35 mA at 24V) Energy-saving mode: ≤600 mW (≤25 mA at 24V, standard) ≤480 mW (≤20 mA at 24V, full scale)	
Comparis on Output (Switch Output)	NPN Output Type	NPN diode, open connector: Max. sink current: 100mA Applied voltage: ≤30V DC (when comparison output is 0V) Residual voltage: ≤2V (at 100mA sink current)
	Output action	NO/NC(selectable via key operation)
	Output mode	Simple mode/Hysteresis mode/Window comparison mode
	Response Deviation (Hysteresis)	Minimum 1 digit (variable)
	Response Time	2.5ms、5ms、10ms、25ms、50ms、100ms、250ms、500ms、1000ms、5000ms (selectable via key operation)
	Short Circuit Protection	Standard
Environm ental Resistance	Protection Structure	IP40(IEC)
	Operating Temperature	-10 ~ +50°C (storage: -10 ~ +60°C)
	Operating Humidity	35~85%RH (non-condensing, non-freezing) Storage: 35~85%RH
	Withstand Voltage	AC 1000V for 1 minute (between all live parts and enclosure)
	Insulation Resistance	≥50 MΩ (measured with 500V DC megohmmeter between all live parts and enclosure)
	Vibration Resistance	Vibration test conditions: 10~500Hz, 3mm amplitude, 2 hours per XYZ axis (When mounted: 10~150Hz, 0.75mm amplitude, 2 hours per XYZ axis)
	Shock Resistance	100m/S <sup>2</sup> (approx. 10G), 3 shocks per XYZ axis
Connection Method	Connector	
Connection Port	M5 Internal Thread + R(PT)1/8 External Thread	
Weight	Body weight: Approx. 40g Package weight: Approx. 135g	
Accessories	1 × MPX-C2 wiring cable (2m length with connector)	

# Digital Pressure Sensor

# MPX SERIES

## Model Selection



① Pressure Range	② Output Type		③ Measure liquid	④ Pipe Shape	⑤ Connection Cable	⑥ Unit switch	⑦ Display Angle
R00	-10-10Kpa	N	Dual NPN Transistor Outputs (Standard Type)	Blank	Air or Non-Corrosive Gas	R1/8(BSPT) Internal Thread + M5 Metric Internal Thread	Blank
		P	Dual NPN Transistor Outputs (Standard Type)				
R01	-101.3~101.3kPa	NH	1 NPN Transistor Output + 1 Analog Voltage Output/External Input (High-Function Type)	R	Fluids Non-Corrosive to SUS 316 Stainless Steel & Fluororubber	Blank	Standard 12 o'clock direction
R10		PH	1 NPN Transistor Output + 1 Analog Voltage Output/External Input (High-Function Type)				
	-485	RS485 Communication (Modbus Protocol)					D6

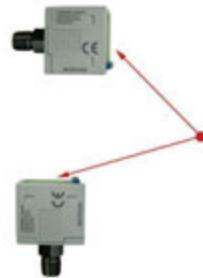
## Selection Item - Single Unit Mode



① Option	Content
Symbol	
C2	2m Cable with Connector
KL	Installation Bracket (Including Fasteners)
KHS	With Panel Mounting Bracket
KCB	Transparent Panel Protective Cover

[Note] In "MPX-R□□□R-6M-KA", the "R" denotes Corrosion-Resistant Pressure Switch

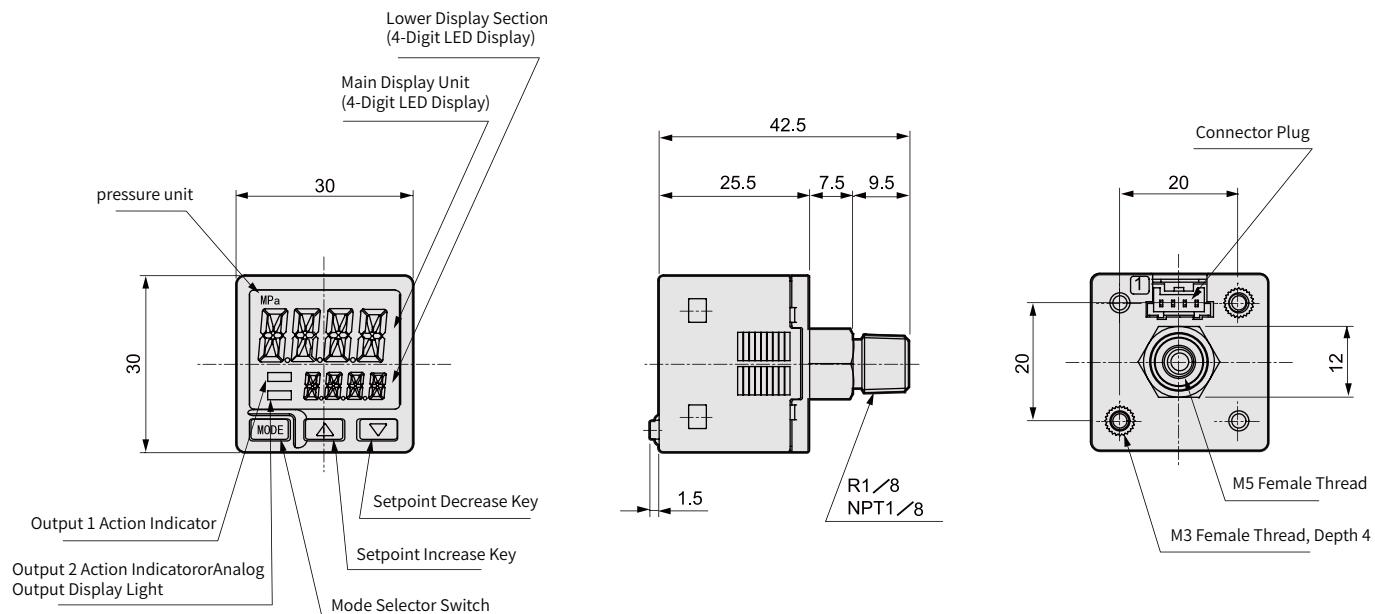
## Notice



[Note] When using the viewing direction as shown in the left picture, please use the product with D6 display direction.

## Outline Dimension Drawing

### ► MPX-R□□□-6M(R Thread)

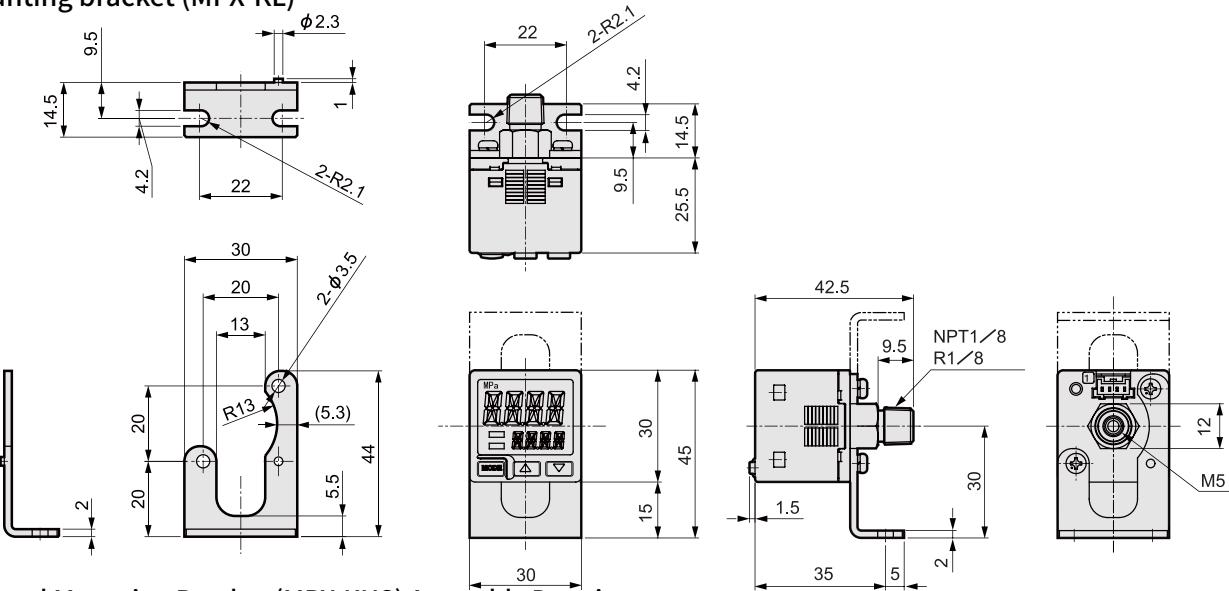


## Digital Pressure Sensor

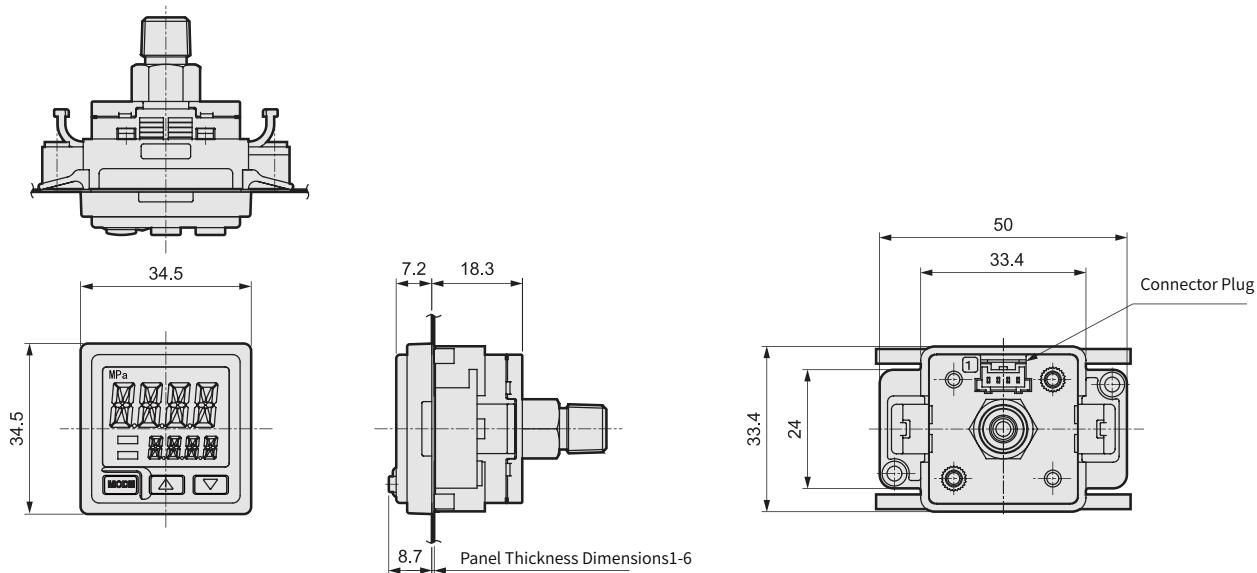
## MPX SERIES

## Outline dimension drawing with options

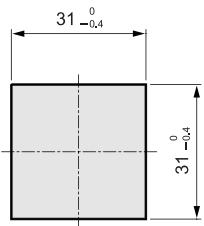
## ► Mounting bracket (MPX-KL)



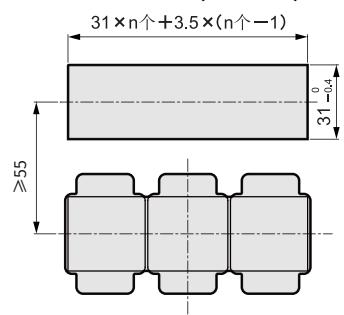
## ► Panel Mounting Bracket (MPX-KHS) Assembly Drawing



## ► Panel Cutout Dimensions (Single Unit Installation)



## ► Horizontal Side-by-Side Installation (n units)



[Note 1]: Panel thickness shall be set to 0.5–6mm

## ► Vertical Stacked Installation (n units)

