

EP43

HIGH PRECISION DIGITAL PRESSURE SWITCH

PRESSOSTATO DIGITALE AD ALTA PRECISIONE



Quick intallation

Intsallazione veloce

- **Save installation time**
Installazione veloce
- **Easy removal**
Facile rimozione

Copy setting

Impostazione di copia

- **Reduce setting time**
Riduce il tempo di settaggio
- **Avoid setting errors**
Evita errori di settaggio

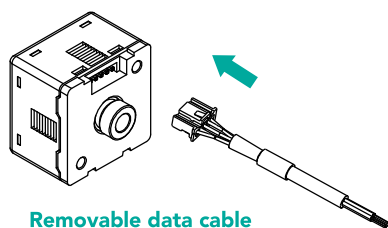
FEATURES / CARATTERISTICHE

- **3 color digital LCD display**
Disply digitale LCD a 3 colori
- **Copy function**
Funzione di copiaggio
- **Programmable pressure unit:**
kPa, MPa, kgf/cm², bar, psi, inHg, mmHg
Unità di pressione programmabile:
kPa, MPa, kgf/cm², bar, psi, inHg, mmHg
- **Dual LCD display allow setting value to be displayed**
Doppio display LCD consente di visualizzare i valori settati
- **Key lock indicator**
Indicatore di blocco / Sblocco
- **Power saving mode**
Modalità risparmio energetico

Easy unit identification

Identificazione facile dell'unità

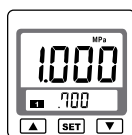
- **Conversion unit is on display and easy to read**
Unità di conversione facile da leggere nel display



Removable data cable
Cavo dati rimovibile

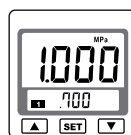
Master (Original parameter)

Master (Parametro originale)



Slave (Copied)

Slave (copiato)



Copy
888888

Can copy the setting value from master to slave sensor
È possibile copiare il valore di settaggio del master al sensore slave

mmHg inHg psi bar kgf/cm² MPa kPa



Setting value easy indication

Indicatore di settaggio facile

- **User can easily observe the setting value from sub-display**
L'utente può facilmente osservare il settaggio dal sotto-display

2-Color main display

Display a 2 colori

- **User programmable color mode, for different setting conditions**
Colore settabile in base alle diverse condizioni di settaggio

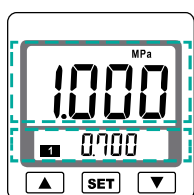
Quick setting

Settaggio veloce

- **Sub-display allows changing the parameter directly, reduce setting step by 3/4**
Il sotto-display consente di cambiare il parametro direttamente riducendo il settaggio sopra/sotto di 3/4

Main / Sub-display

Display principale / sotto-display

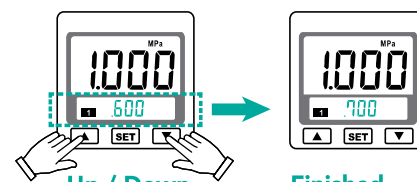


Main display
Display principale

Sub display
Sotto-display



	Sub	Sub	On	Red
ON	Green	Red	Green	Red
OFF	Red	Green	Green	Red



Up / Down
quick setting
Sopra / sotto
settaggio
veloce

Finished
setting
Settaggio
finito

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Rated pressure range	-100.0 ~ 100.0 kPa	-100.0 ~ SET27 0.0 kPa	0 ~ 1.0 MPa
Setting pressure range	-101.0 ~ 101.0 kPa	-101.3 ~ 10.0 kPa	-0.1 ~ 1.0 MPa
Withstand pressure	300 kPa		300 kPa
Fluid	Filtered Air, Non-corrosive / Non-flammable gas		
Set pressure resolution	KPa / MPa		- / 0.001
	kgf/cm ² / Bar	0.1/- 0.001	0.01
	psi	0.01	0.1
	mmHg	1	-
	inHg	0.1	-
Power supply voltage	12 to 24V DC \pm 10%, Ripple (P-P) 10% or less		
Current consumption	\leq 40mA (With no load)		
Switch output	NPN: open collector 2 outputs		PNP: open collector 2 outputs
	Max. load current: 125mA		Max. load current: 125mA
	Max. supply voltage: 30V DC		Max. supply voltage: 24V DC
	Residual voltage: \leq 1.5V		Residual voltage: \leq 1.5V
Repeatability (switch output)	\pm 0.2% F.S. \pm 1digit		
Hysteresis	Hysteresis mode/ Window comparator mode	Adjustable (*1)	
Response time	\leq 2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable)		
Output short circuit protection	Yes		
7 segment LCD display	2 color (Red/Green) main & unit display, Orange sub-display (Sampling rate: 5 times/1sec.)		
Indicator accuracy	\pm 2% F.S. \pm 1 digit (Ambient temperature 25 \pm 3°C)		
Switch ON indicator	Orange (1 & 2 indicator) OUT1 / OUT2		
Analog output (Voltage Output) (*2)	Output Voltage: 1 to 5V \pm 2.5% F.S. (within rated pressure range); Linearity: \pm 1% F.S. Output impedance: about 1K Ω		
Analog output (Voltage Output) (*3)	Output Current: 4 to 20mA \pm 2.5% F.S. (within rated pressure range); Linearity: \pm 1% F.S. Max. load impedance: 300 Ω at power supply of 12V, 600 Ω at power supply of 24V Min. load impedance: 50 Ω		
Environment	Enclosure	IP40	
	Ambient temp. range	Operation: 0 ~ 50°C, storage: -10 ~ 60°C (No condensation or freezing)	
	Ambient humidity range	Operation/Storage 35 ~ 85% RH (No condensation)	
	Withstand voltage	1000V AC in 1-min. (between case and lead wire)	
	Insulation resistance	50M Ω min. (at 500V DC, between case and lead wire)	
	Vibration	Total amplitude 1.5mm or 10G, 10Hz-55Hz-10Hz scan for 1 minute, 2 hours each direction of X, Y and Z	
	Shock	100m/s ² (10G), 3 times each in direction of X, Y, and Z	
Temperature characteristic	\leq \pm 2.5% F.S. of detected pressure (25°C) at temp. Range of 0 ~ 50°C		
Port size	F1: R1/8, M5x0.8; F2: NPT1/8, #		
Lead wire	Oil resistance cable (0.15mm ²)		
Weight	Approx. 80g (with 2 meter lead wire)		

ORDER EXAMPLE / CODIFICA DI ESEMPIO

EP43 C - 010 - F1

Model
 Modello

Pressure port:

Connessioni:
F1 R1/8, M5x0.8
F2 NPT1/8, 10-32UNF
F3 G1/8, M5x0.8

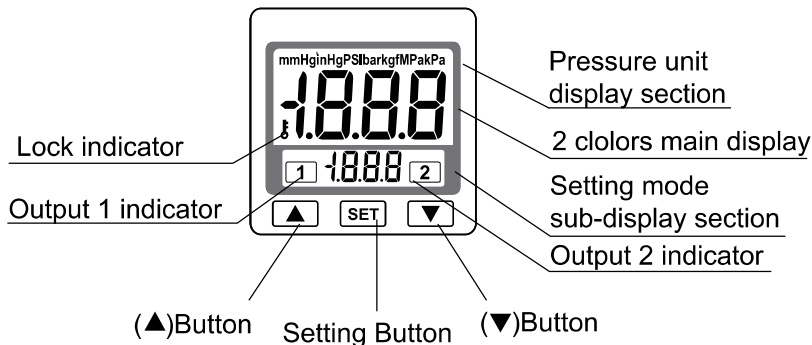
Pressure range:

Range di pressione:
C Compound / Composto (-101.0 ~ 101.0 kPa)
V Vacuum / Vuoto (-101.3 ~ 10.0 kPa)
P Positive / Positivo (-0.1 ~ 1.0 MPa)

Output method:

Range di pressione:
010: 2 NPN output / uscita + 1 Analog output / uscita analogica (1~5V)
011: 2 NPN output / uscita + 1 Analog output / uscita analogica (4~20mA)
02: 2 NPN output / uscita + 1 Analog output / Copy function / funzione copia
030: 2 PNP output / uscita + 1 Analog output / uscita analogica (1~5V)
031: 2 PNP output / uscita + 1 Analog output / uscita analogica (4~20mA)
04: 2 PNP output / uscita + 1 Analog output / Copy function / funzione copia

PANEL INSTRUCTIONS / ISTRUZIONI DEL PANNELLO



DIMENSIONS / DIMENSIONI

