

Official Product Identity Mapping

MPS-R23C-NGA

Official CONVUM order-code mapping: MPS-R23C-NGA

R = compound pressure range from -101 to 500 kPa

C = port for CONVUM; N = NPN open-collector switch outputs

G = 2 m grommet cable; A = 1 to 5 V analog output

Selected catalog pages define ordering, ratings and dimensions.

Official model page:

<https://www.convum.co.jp/english/product/product-e.html>

MPS-23

Digital Display Pressure Sensor

How to Order

• Single Type

MPS — **V** 23 **R** — **N** **G** **A**

① ② ③

① Pressure Range

Symbol	Type	Range
V	Vacuum	-101~0kPa
P	Positive	0~1MPa
R	Compound	-101~500kPa

② Port Size

Symbol	Specifications
R	R1/8 (Male)
N	NPT1/8 (Male)
G	G1/8 (Male)
C	for CONVUM ^{Note}

③ Output Type(Switch output)

Symbol	Specifications
N	NPN open collector
P	PNP open collector

Analogue Output
1 ~ 5V Voltage output

Cable
Grommet (with lead wire 2m)

Note) Without base, mounting screw.

• CONVUM Mounting Type

MPS — **V** 23 **C** — **N** **G** **A** — **MC22**

① ② ③

① Pressure Range

Symbol	Type	Range
V	Vacuum	-101~0kPa
R	Compound	-101~500kPa

② Output Type(Switch output)

Symbol	Specifications
N	NPN open collector
P	PNP open collector

③ Applicable CONVUM

Symbol	Applicable CONVUM
MC22	MC22
MC7	MC72
MPV3	MPV3

Pressure Sensor
Digital Display Pressure Sensor

04
Pressure
sensor

MPS-35

MPS-23

MPS-9

MPS-10

MVS-201

MVS-030AB

MPS-23 Digital Display Pressure Sensor

Pressure Sensor

04 Pressure sensor

MPS-35

MPS-23

MPS-9

MPS-10

MVS-201

MVS-030AB

Specifications

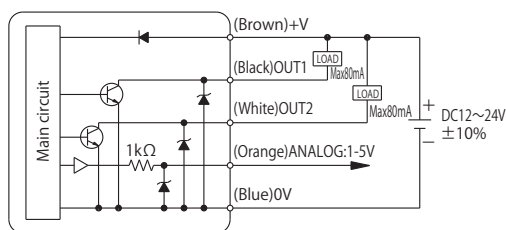
Description \ Model number		Unit	MPS-V23	MPS-P23	MPS-R23
Fluid			Air, non-corrosive gas, non-flammable gas		
Diaphragm			Silicon diaphragm ^{Note1}		
Rated pressure range			-101~0kPa	0~1MPa	-101~500kPa
Setting pressure range			-101.3~10kPa	0.1~1MPa	-101~500kPa
Withstand pressure		MPa	0.3	1.5	0.8
Ambient temperature range		℃	0~50(No freezing)		
Ambient humidity range		%RH	35~85(No condensation)		
Port size			R1/8, NPT1/8, G1/8(Male with M5 female screw)		
Power supply voltage		V	DC12~24±10%, ripple(Vp-p) 10% or less		
Maximum power consumption		mA	55		
Switch output	Type		NPN or PNP open collector 2 outputs		
	Maximum load current	mA	80		
Analog output		V	DC1~5V(±0.1) linearity 0.5% F.S. output impedance1kΩ ^{Note2}		
Repeatability		%	±0.2F.S 1digit or less		
Temperature characteristic		%	Less than±2 F.S. (At standard temperature 25℃, range0~50℃)		
Response time		ms	2.5 or less (Variable 24, 192, 768 options)		
Hysteresis			Variable		
Display	Digital		3 1/2-digits, 7-segment, red LED		
	Operation		OUT1:Green LED(ON lighting), OUT2:Red LED(ON lighting)		
Display/set resolution			0.1kPa	0.001MPa	1kPa
IP class			IP40		
Vibration resistance			10~55Hz, total amplitude 1.5mm, 50m/s ² 2 hours each direction of XYZ		
Shock resistance		m/s ²	980 3 times each direction of XYZ		
Electrical connection			Grommet		
Cable			φ4 0.15mm ² 5 lead wires 2m		
Weight (with cable)		g	135		

Note 1) Non grease specifications.

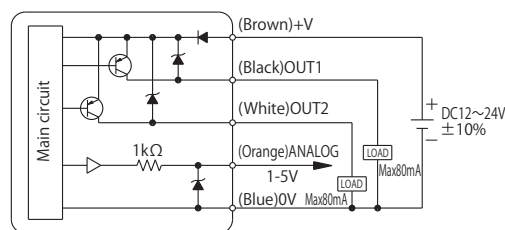
Note 2) Analog output of positive pressure type (P) in range of pressure 0 to 1 Mpa can output DC1-5V. In range of pressure -0.1 to 0 it does not output.

Internal Circuit

NPN Output (Analog voltage output)



PNP Output (Analog voltage output)



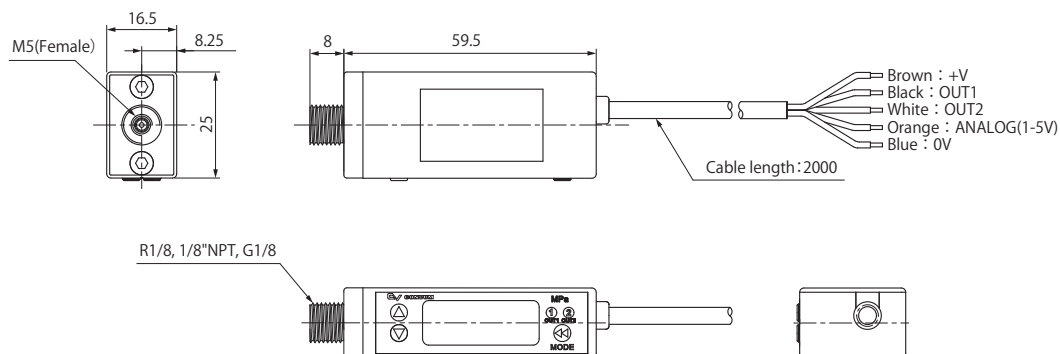
MPS-23

Digital Display Pressure Sensor

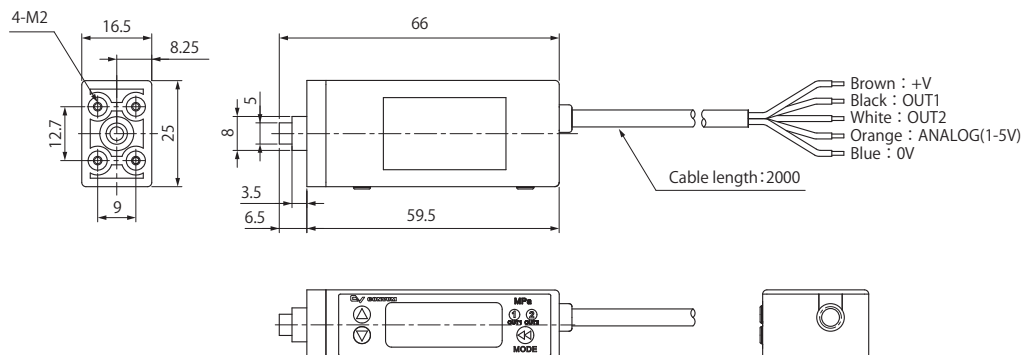
Dimensions

(mm)

Single Type



CONVUM Mounting Type



Pressure Sensor
Digital Display Pressure Sensor

04
Pressure
sensor

MPS-35

MPS-23

MPS-9

MPS-10

MVS-201

MVS-030AB



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