SMC Information

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Smart Positioner (Rotary Type) Series IP8101





Dual wire input - compatible with conventional facilities

Controllable by a conventional dual wire input signal (4 to 20 mA DC) which does not require a different power supply.

Calibration function integrated

Easier to perform zero/span adjustment than a conventional mechanical positioner.

Integrated parameter function

Numerous parameter setting functions are available.



Parameter Settings List

Function	Parameter
Standard functions	Normal/reverse run setting
	Split range setting
	Zero/span adjustment setting
	Forced fully-closed/fully-open setting
	Dead band setting
	Valve characteristic settings
	· Linearity chracteristics
	- Equal % characteristics (class 2)
	- Quick open characteristics (class 2)
	· User's point setting
	PID constant setting
	Calibration setting
Optional functions	Alarm 1 output setting
	Alarm 2 output setting
	Analog output (4 to 20 mA DC) setting

Output functions

The alarm point output function (2 points) and a continuous analog output (4 to 20 mA DC) function are available.

HART transmission mode

HART transmission mode is available.

ATEX compliant

ATEX intrinsically safe explosion protection type construction is available.

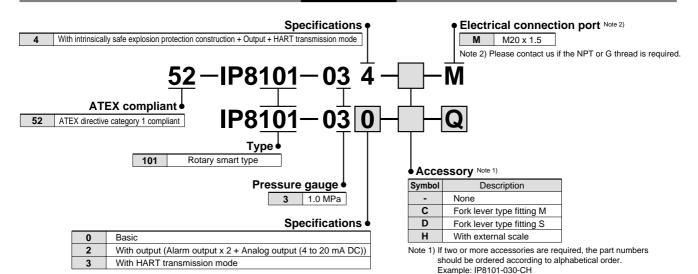
Displayable control condition

The positioning, deviation, input value are displayed on a LCD inside the body cover.

Interchangeable mountings

The dimensions for mounting the main body and the fork lever type fittings are identical to the conventional mechanical type, IP8100 electro-pneumatic positioner.

How to Order



Series IP8101

Specifications



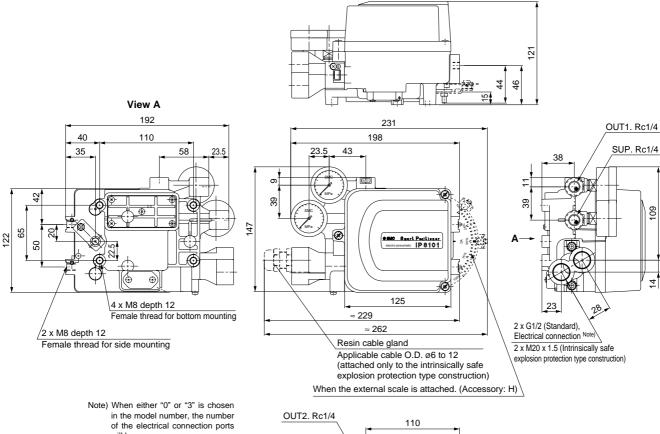
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Model	IP8101
Description	Smart positioner (Rotary type)
Input current	4 to 20 mA DC
Voltage between terminals	12 V DC (Input resistance equivalent to 600 Ω , at 20 mA DC)
Supply air pressure	0.3 to 0.7 MPa
Applicable actuator rotation angle	60 to 100°
Air consumption	11 t/min (ANR) or less (SUP: at 0.4 MPa)
Linearity Note 2)	Within ±1% F.S.
Hysteresis Note 2)	Within 0.5% F.S.
Sensitivity Note 2)	Within ±0.2% F.S.
Enclosure Note 3)	ATEX intrinsically safe explosion protection construction (() II1G EExia IICT4 Ta80°C II1D T63°C Ta60°C
Outer sheath protection class	JISF8007 IP65 (Conforming to IEC Pub.529)
Operating temperature range	−20 to 80°C −20 to 60°C (at ATEX/II1D)
Transmission mode Note 3)	HART

Note 1) Values in the specifications are at room temperature (20°C).

Note 2) Properties related to the precision may differ depending on the combination between a positioner and the loop components such as an actuator.

Note 3) It is required to select the model numbers for the intrinsically safe product with explosion protection type construction and the HART transmission mode.

Dimensions



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