



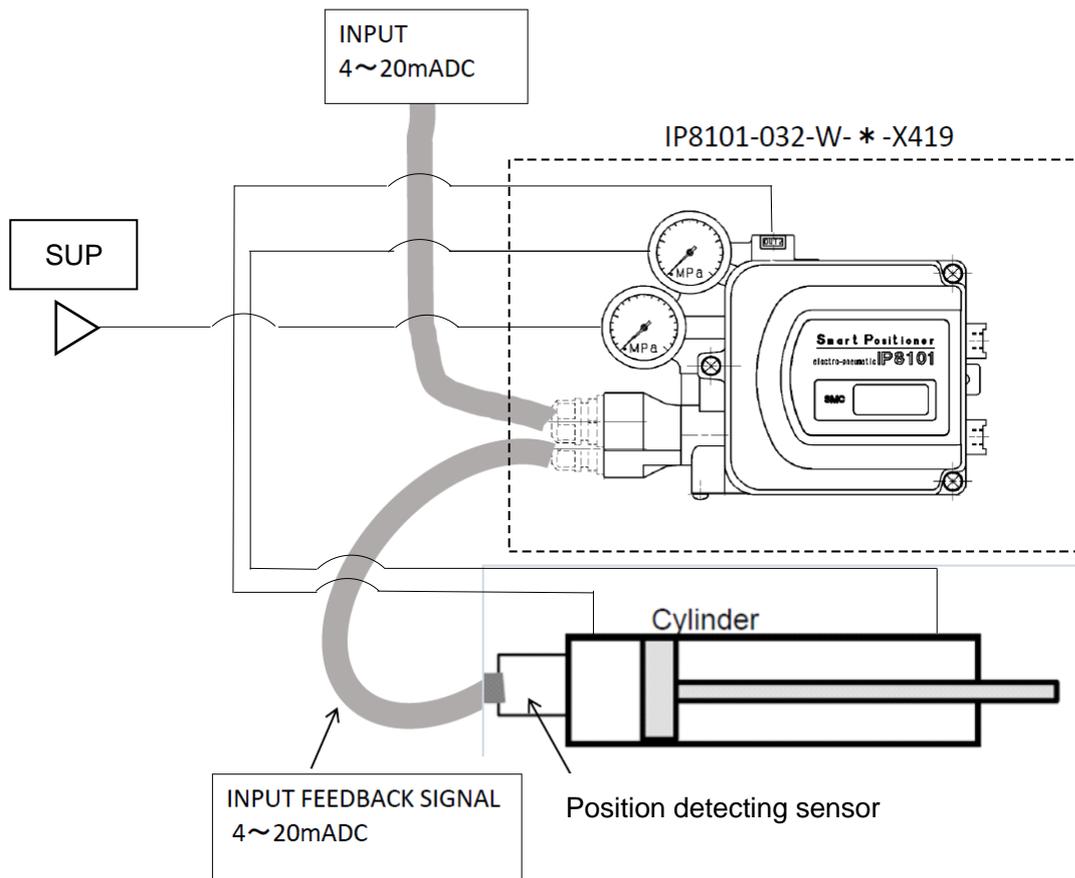
Smart positioner / IP8101-X419 -External input signal (Remote) type

SMC CORPORATION
4-14-1, SOTO-KANDA,
CHIYODA-KU,
TOKYO 101-0021, JAPAN
URL: <http://www.smcworld.com>

■ Feature:

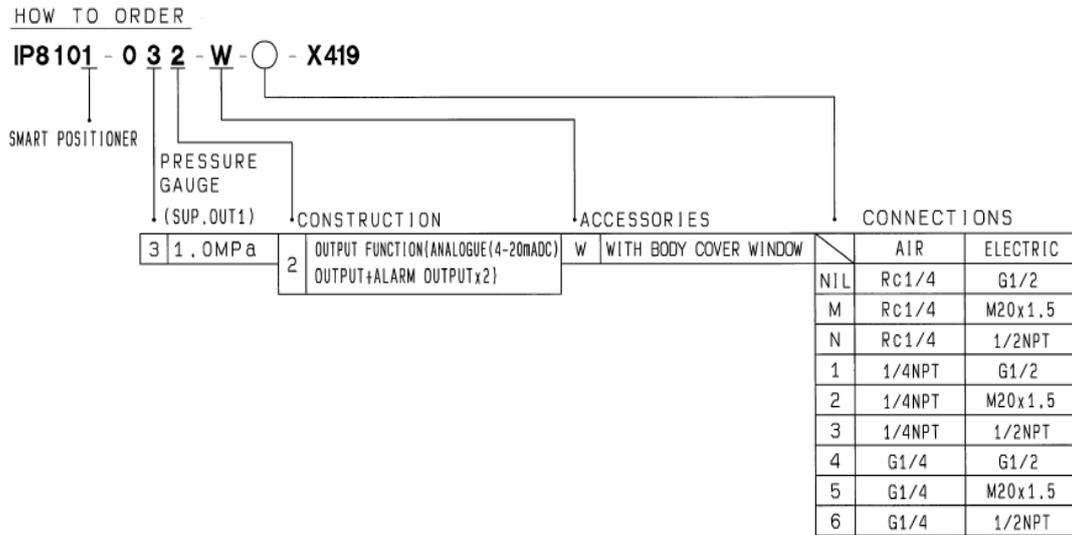
This positioner can be installed in remotely from cylinder (actuator)

- * This positioner is useful in cases where the cylinder is installed in these types of locations.
 1. High Temperature (Higher temperature than the positioner's spec)
 2. An area subject to strong vibrations
 3. A hard to access location



- * This positioner does not require a mechanical linkage. The feedback signal (4-20mADC) is received from the sensor installed on the cylinder, detects the position, and controls the cylinder.

How to Order



Specifications

Positioner Specifications

SPECIFICATIONS

INPUT CURRENT	4~20mADC (2WIRE SYSTEM, SEPARATE POWER SOURCE UNNECESSARY)
INPUT FEEDBACK SIGNAL	4±1m~20±1mA
PIPING LENGTH	10m OR LESS
TUBING SIZE	O.D. 8mm, I.D. 5mm
MINIMUM CURRENT	3.85mADC OR MORE
VOLTAGE BETWEEN TERMINALS	12VDC (INPUT RESISTANCE EQUIVALENT TO 600Ω, AT 20mADC)
SUPPLY AIR PRESSURE	0.3~0.7MPa
SENSITIVITY	±0.2% F.S. OR LESS
LINEARITY	±1% F.S. OR LESS (NOTE 2)
HYSTERESIS	0.5% F.S. OR LESS (NOTE 2)
REPEATABILITY	±0.5% F.S. OR LESS (NOTE 2)
TEMPERATURE COEFFICIENT	0.05% F.S./°C OR LESS (NOTE 2)
MAX OUTPUT FLOW RATE	200L/min(ANR) OR MORE (AT SUP=0.4MPa)
AIR CONSUMPTION	11L/min(ANR) OR LESS (AT SUP=0.4MPa)
AMBIENT AND OPERATING FLUID TEMPERATURE	-20°C~80°C
AIR CONNECTION PORTS	1/4(Rc, NPT, G) FEMALE
ELECTRICAL CONNECTIONS	1/2(G, NPT) FEMALE, M20X1.5 FEMALE
MASS	APPROX. 2.6kg

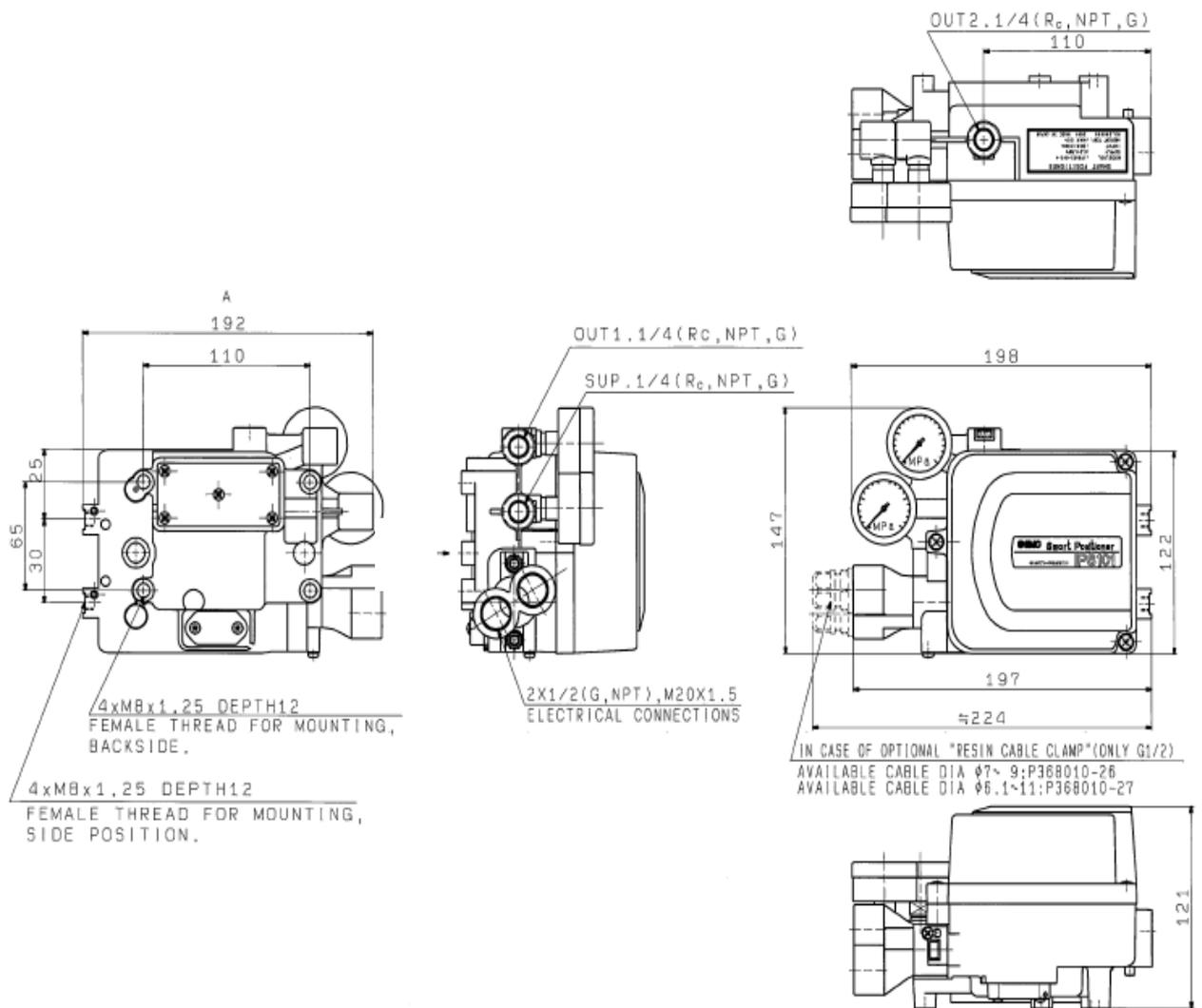
NOTE 1. (ANR) SHOWS STANDARD AIR. (JIS B 0120)

2. IT IS A CHARACTERISTIC CHECKED WITHOUT LOADS USING A FACTORY INSPECTION MACHINE (WITH EXTERNAL SENSOR OF THE FOLLOWING SPECIFICATION). THE POSITIONER CAN NOT WORK INDEPENDENTLY AND IS USED AS A PART OF LOOP INCLUDING ACTUATING EQUIPMENT SUCH AS A VALVE, ACTUATOR AND DCS. THEREFORE, THE DESCRIBED CHARACTERISTIC VALUES MAY VARY DEPENDING ON THE LOOP CONDITIONS. AN EXTERNAL SENSOR IS NOT INCLUDED IN TEMPERATURE COEFFICIENT.
3. ANALOGUE OUTPUT ACCURACY TO POSITION VALUE (P VALUE) IN THE LCD DISPLAY.
4. AIR CONNECTION PORTS AND ELECTRICAL CONNECTIONS ARE CHANGED BY THE MODEL SELECTION.
5. THE CONTROL CAN BE STABILIZED BY DOING "(800)PID CONSTANT SETTING" AFTER "(C30)CALIBRATION".

Chart 1. External sensor specification (Reference)

EXTERNAL SENSOR SPECIFICATION(REFERENCE)	
LINEARITY	±0.05%F.S. OR LESS
RESOLUTION	0.01%F.S. OR LESS
REPEATABILITY	±0.01%F.S. OR LESS
OUTPUT CURRENT	4~20mADC

■ Dimensions mm



⚠ Caution To ensure the safest possible operation of this product, please be sure to thoroughly read the "Safety Instructions" in our "Best Pneumatics" catalog before use.