

**GENERAL**

PCS-1 is a sensor provided with current transmission function specifically for the purgemeter. It optically detects the float position by the newly developed CCD sensor. It allows the flow rate to be output as current signal of DC4 to 20mA, in addition to permitting display of flow rate by the float of the normal purgemeter. In addition to remote display by current output, it is equipped with an OAC-1 flow controller which ensures a flow control of four systems by one unit, and enables cost-effective remote monitoring.

**STANDARD SPECIFICATIONS**

CCD sensor: PCS-1

Current output: DC4 to 20mA, permissible load resistance: 300 ohms,  
Wiring system: 4-wire type  
Output resolution: 1/255 (+/-0.5% (F.S.))

The output becomes partial output due to the scale stroke, without becoming full-scale output. In this case, the output conversion of 4 to 20mA does not change with respect to the scale of 0 to 100%. For details, contact us.

Output accuracy: +/-3% (F.S.) < 25 +/- 10°C

Power voltage: DC 12 V +/- 10%

Current consumption: 0.1A or less

Electric connection: By exclusive cable terminal (cable length:  
2m or 7m, to be specified at the time of  
ordering)

Exclusive flow controller OAC-1

One special-purpose flow controller OAC-1 can be connected with a maximum of four PCS-1 sensors, and display can be provided by selection.

Function: Supplies a specified power to the PCS sensor.

Flow rate display by 3-1/2 digit LED display

Flow alarm: Open collector (DC30V, 30mA max.)

Protected against short-circuiting

RS485 communication functions

Power supply: DC12V +/- 10%

(with a circuit to protect against reverse connection)

Current consumption: 0.7A or less (when connected with four  
sensors)

Connection with PCS sensor: By exclusive connector

Installation: on the panel (DIN48 x 48)

Structure: For indoor use (Equivalent to IP40)

Object for measurement: Fluid in general (transparent fluid such  
as pure water and chemical fluid)

Attached equipment: P-710 and P-771

Flow range, maximum operating pressure, maximum operating  
temperature, material, connection method, and mounting method  
are different according to each meter manufacturer.



