# Alarm and analog output unit

CCD sensor

Code H

#### 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

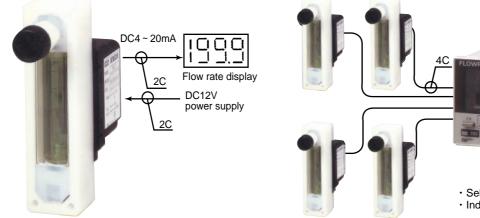
Flow range, maximum operating pressure, maximum operating temperature, material, connection method, and mounting method are different according to each meter manufacturer.



#### **EXAMPLE OF USE**

Normal remote display

Exclusive flow controller OAC-1

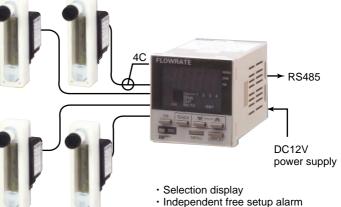


Panel cut view

80 100

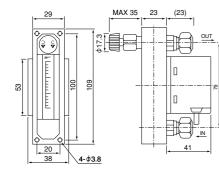
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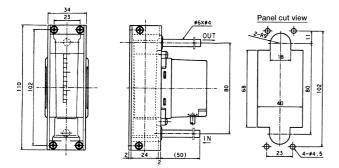


## EXTERNAL DIMENSIONS

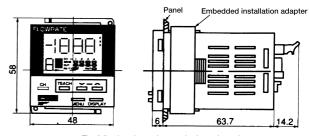
#### P-710 purgemeter (with PCS-1 transmitter)



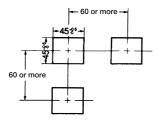
#### P-771 purgemeter (with PCS-1 transmitter)



Exclusive flow controller OAC-1



The following shows the standard panel cut view: (Conforms to DIN43700)



Note: 1. The installation panel should be 1 to 5mm thick.