

SEPARATE AMPLIFIER TYPE OPTICAL ALARM UNIT

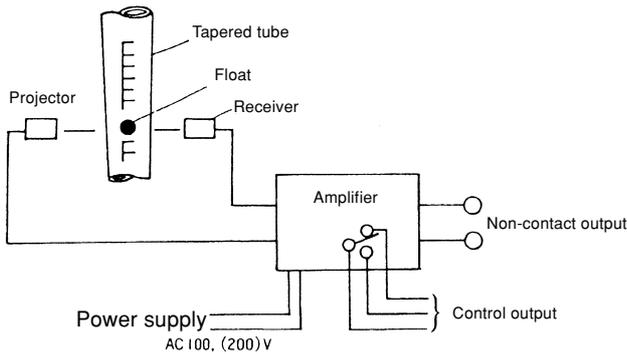
Code **F**

GENERAL

The separate amplifier type optical alarm unit comprises of a projector, receiver and amplifier unit. Relay contact output and non-contact output are provided from the amplifier, depending on the presence or absence of the float.

OPERATING PRINCIPLE

Install the projector and receiver so as to hold the tapered tube in-between. The system detects if the float is present at the specified position or not. You can use the switches for selection; LIGHT ON when light is applied (without float) and DARK ON when light is cut off (with float). Since operation is provided by instantaneous contact, the holding circuit must be configured to meet the purpose of use when you want to use alarm on a continuous basis.



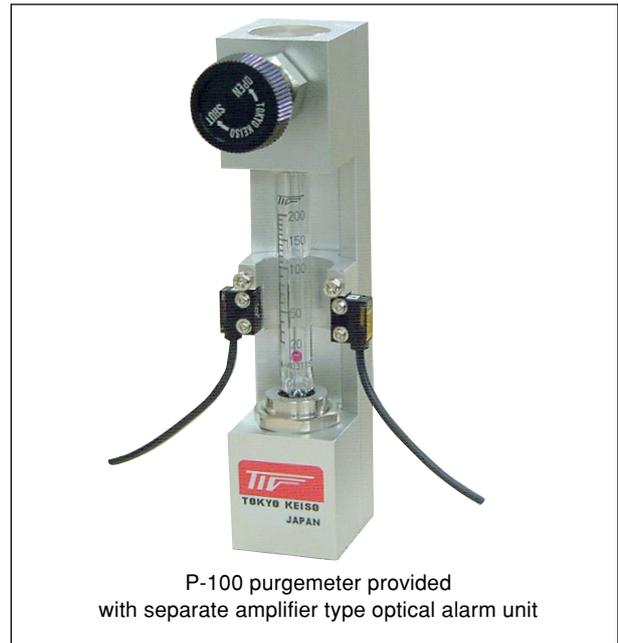
Block diagram

STANDARD SPECIFICATIONS

Models of purgemeters compatible with this unit:  
 P-100, P-200, P-710, P-772, P-773, P-774  
 (There are restrictions to the flow range. For details, see the description on relevant pages).

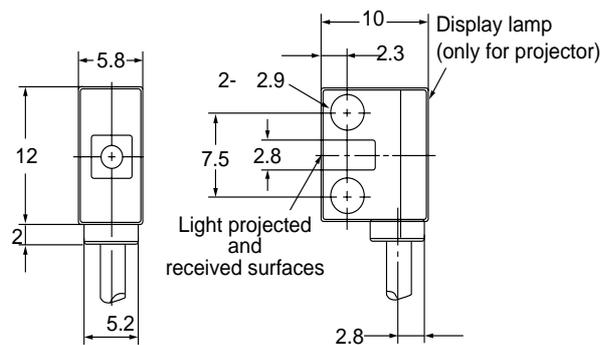
- Power voltage: AC100/200V +/-10% (for common use), 50/60Hz (for common use)
- Projector and receiver setup distance: 10cm or less
- Detected substances: Non-transparent substances (standard)
- Minimum detected substance width: Non-transparent substances 2mm
- Operating: by selector switch
  - DARK ON when light is cut off
  - LIGHT ON when light is applied
- Response time: Non-contact output 1/2 ms or less, and Contact output 20 ms or less

- Control output: Contact output 1C AC220V 1A (cos φ=1)  
 Non-contact output, output current 1.5 to 4 mA
- Ambient illumination: 3000 luxes or less on the light receiving surface (incandescent lamp)
- Receiver orientation angle: 10 to 60 deg.
- Vibration resistance: New complex width: 1.5 mm durable 10 to 50 Hz Three directions, X, Y and Z, two hours each
- Shock resistance: approx. 50G (about 30G for amplifier unit)
- Power consumption: 3W or less
- Ambient temperature: -25 to + 70 °C for projector and receiver  
 -10 to 55 °C for amplifier unit
- Ambient humidity: 35 to 85 %RH
- Extension cord: Shielded cord (max. length: 9m)

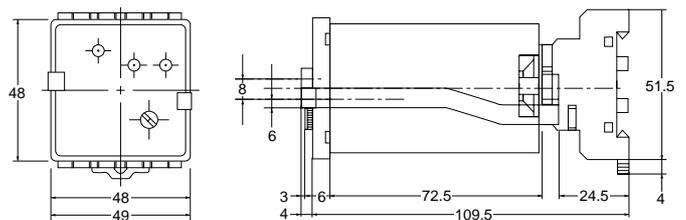


P-100 purgometer provided with separate amplifier type optical alarm unit

EXTERNAL DIMENSIONS



Sensor/transmission type



Amplifier unit

CONNECTION DIAGRAM

