HD103T.0

Wind speed instrument with analogue output

The devices HD103T.0 measures air speed by using an all-directional hot-wire probe. It is provided with three configurable analogue outputs: 4…20mA, 0…20mA current output and 0…10Vdc voltage output. The choice of output type is made by means of the jumpers set on the card. The sensor set on the top of the probe is very delicate and must be protected with the special frame provided with the instrument. During transportation, the sensor is closed into a cylinder screwed on the end part of the probe: during installation, unscrew this cylinder and screw the protection frame in its place. The relation between output range (current and voltage) and input range is fixed: the output minimum and maximum values are associated with the minimum and maximum values of the input variables.



Electrical characteristics

Air speed

- Measuring range: 0…5m/s
- Accuracy : ±0.04m/s (0…0.99m/s), ±0.2m/s (1.00…5.00m/s)
- Temperature compensation: 0…+80°C

Temperature

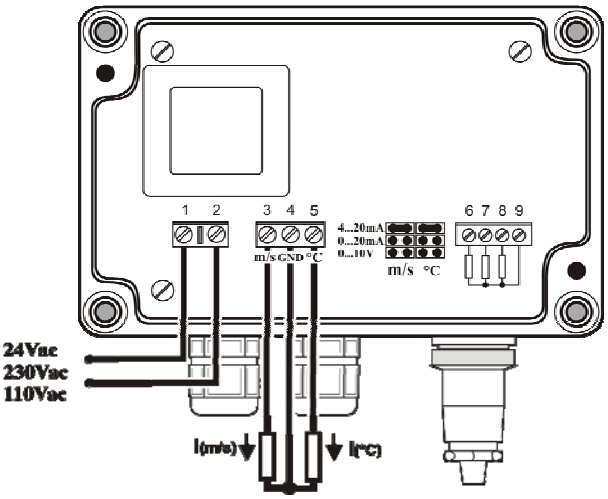
- Measuring range: -20…80°C
- Accuracy : ±0.3°C (0…70°C), ±0.4°C outside

Outputs (both for temperature and for air speed)

- Current output: 4…20mA and 0…20mA
- Voltage output: 0…10Vdc
  (0…5Vdc and 0…1Vdc on request)
- Load resistance:
  MAX 500Ω for current output,
  MIN100kΩ for voltage output

Power supply

- 24Vac ±10%, 50…60Hz
- 110Vac and 230Vac ±10%, 50…60Hz on request



General mechanical characteristics

- Box 120 x 80 x 55
- Two PG7 outlets, one for power supply the other for voltage output signal
- One connector for the connection of the probe
- Probe with cable ø 8mm, L=5m
- Protection degree: electronic IP67

