

## TEMPERATURE RESISTANCE PROBE WITH PROTECTION TUBE TYPE:

# CVB



### Description of the probe:

Temperature resistance probe type CVB is constructed out of protection tube with its male thread and measuring insert which is inserted in the protection tube. If there is a probe malfunction all we have to do is change the measuring insert while the protection tube remains screwed into place and therefore is no need to drain the medium out of the system. There is also 4 ... 20 mA current transducer which can be implemented into the head of the probe.

### Sensor features:

Sensors, which can be implemented into the measuring insert of the probe:

- Pt 100
  - tolerance class A\*
  - tolerance class B\*
  - two-wire implementation
  - three-wire implementation
  - four-wire implementation
- Pt1000
  - tolerance class B\*
  - two-wire implementation
- NTC 10K
- KTY 81
- Ni1000, 5000 ppm/K
- Ni1000, 6178 ppm/K

(refer to the ordering table)

\* according to DIN EN 60751

### External features of the probe:

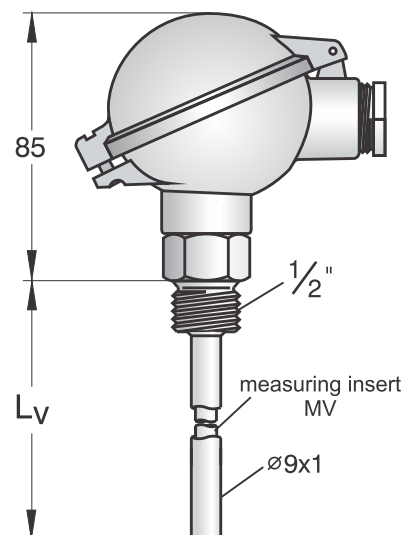
Protection and measuring insert tube are made out of ANSI 403 (DIN 1.4024) steel. Process connector measures 1/2".

Mounting length of the probe (Lv) can be:

- 100 mm
- 160 mm
- 250 mm
- 300 mm
- 400 mm
- 500 mm

(refer to the ordering table)

### Image and dimensions of the probe:



### Operating conditions and maintenance:

#### Temperature

Temperature interval for CVB is -40/100°C.

#### Reaction time

$T_{0.5} < 20s.$

#### Pressure

Maximum pressure of the medium is 40 bar.

#### Maintenance

The probe does not need any maintenance.

### Option - measuring transducer:

Measuring range is set to customer's specifications. Transducer has 4...20mA current output and two-wire power supply from the measuring loop. Power supply voltage is 24...36 Vdc.

Two types of transducers, which can be implemented in the probe's head:

- MO4201 (CVB AI)
- RS485 (CVB RS)

### Plug-in head:

Probe has plug-in head type BS (IP65), which is made out of aluminum alloy and cable gland M20.



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