



Mechatronic thermometer – Type A88

Sheet No.: 3-45 GB

Mechatronic rigid stem thermometer

- PT100 and mechanical measuring in the same point
- No measuring errors due to measurement in two different points
- Ideal positioning of both sensors
- Vibration proof due to liquid filling
- Fewer assembly points
 - Food, beverages and pharma: better hygienic design
 - Tough environments: fewer leakage points

A combined instrument

The mechatronic rigid stem thermometer combines the well known TEMPRESS rigid stem thermometer and an electronic temperature sensor (PT100) into one useful instrument.

Due to its construction, with the electronic sensor lead running through the thermometer stem into the bulb, is it possible to conduct both a mechanical and an electronic measurement in the same point.

Where used

Carrying out the mechanical and electronic measurement gives a number of advantages. e.g. it eliminates the possibility of different readings due to measuring in 2 different points.

When measurements in tough environments where harsh chemicals and sour gasses are in use it eliminates the potential no. of leakage points. In sanitary applications it minimizes the no. of dead legs where dirt can assemble and pollute a sanitary system.

Further more the mechatronic thermometer is faster and cheaper to install due to the fact that it reduces the number of installation points in a large process system.

SPECIFICATIONS	
Case size Type	DN63 A880101 Down A880102 Rear
Case Immersion probe Standard length Min. Insert length	AISI304 AISI316 L100 60 mm
Liquid filling	Silicone oil
Connection	Adjustable nipple or pocket, see datasheet 3-98, 3-99
Range: standard Optional Span between	0-160 °C . -40+250 °C
Accuracy Mechanical PT100	. EN13190 Cl.1 DIN IEC 751 Cl.B
Electrical: Connection Element	. M12x1 IEC 60947-5-2 PT100, 3-wire