Testo 650

The new Professional Class is on the market now!

Accurate temperature measurements are becoming increasingly important, especially in regarding energy savings, indoor air quality and environmental protection. You can add humidity and/or velocity measuring to the meter when you want. In this way you will always have a measuring instrument corresponding to the latest technology. These meters are supported with our user-friendly, Basic Comfort software which can be used for programming, data processing, and even bar-coding.

Our modular design allows for easy upgrades to the instrument as they are developed.

Accurate temperature measurements of liquids, semi solids, air and surfaces are performed by RTD (Pt 100)
probes according to DIN IEC 751.

Description

The precision temperature/humidity measuring instrument includes the basic parameters temperature, CO, CO2, rpm, mV and mA and %RH.

Rapid measurement with accurate temperature probes. The measuring instrument extrapolates the final value.

Highest precision due to system calibration (measuring instrument + probe) Calibration data is saved in the probe.

Calculates all of the physical humidity parameters in the Mollier diagram:
- relative humidity (% RH)
- dew point, pressure dew point (tp, tdp)
- absolute humidity (g/m³)
- humidity levels (g/kg pressure-compensated)
- humidity, wet temperature °C and °F

- water vapour partial pressure in mbar/hPa
- Enthalpy kcal/kg

Humidity probes for every application, from low to high humidity levels.
Guaranteed long-term stability < 1%RH over 2 years.
Highest accuracy up to ± 1 %RH.

Technical Specification:

- incl. quick extrapolation
- incl. system calibration (inst. + probe)

Pt100 RTD

Measuring Range:	-200 to +800 ºC (-328 to +1472 ºF)
System Accuracy:	up to ± 0.1°C / ± 0.1°F (Class A, B)
Resolution:	0.01°C (0.01°F)

NiCr-Ni

Measuring Range:	-200 to +1,370°C (-328 to +2498°F)

PtRh-Pt

Measuring Range:	0 to +1,760°C (32 to +3200°F)

FeCu-Ni

Measuring Range:	-200 to +1,000°C (-328 to +1832°F)

NTC

Measuring Range:	-50 to +150°C (-58 to +302°F)
System Accuracy:	up to 0.4°C (0.4°F)

Humidity measurement

Measuring Range:	
Temperature:	-30°C to +180°C (-22°F to +356°F)
Humidity:	0 to 100% RH
System Accuracy:	up to ± 1.0 % RH

Pressure measurement

Measuring Range:	± 0.1 bar ± 0.01 bar 2bar 10 bar 30 bar

CO measurement

Measuring Range:	0 to 500 ppm
Accuracy:	± 5 ppm

CO2 measurement

Measuring Range:	0 to 10,000 ppm 0 to 1 vol. %

Accuracy:	± 5% of m.v. or 100ppm
rpm measurement	
Measuring Range:	0.333 to 333 Hz, 20 to 20,000 rpm
Accuracy:	± 1 digit
Current/voltage measurement	
Measuring Range:	0 to 20 mA / 4 to 20 mA , 0 to ± 10 V / 0 to ± 1 V
General Technical data	
Memory space	
Basic version:	15 kB, corresponds to approx. 7,500 meas. values
Option Memory upgrade:	1 MB, corresponds to approx. 500,000 meas. values
Power supply: **Alternatively:**	battery / rechargeable battery 8 V mains unit
Rechargeable battery lifetime:	18 h (continuous oper. with 2 thermocouple probes)
Operating temperature:	0 to +50 °C (32 to +122°F) short-term 0 to +60°C (32 to +140°F)
Storage/transport temperature:	-25 to +60°C (-13 to +140°F)
Weight:	650 g (incl. rech. battery) 1 lbs. 7 ozs.

Other factors:

- Automatic recognition of all connected probes
- Instrument can be upgraded (testo 400)
- RS 232 interface for data management

Warranty:	Probe: 1 year Instrument: 3 years

Contact Details

meaco, unit 8 smithbrook kilns, cranleigh, surrey, gu6 8jj, england

tel: +44 (0)1483 267433 fax: +44 (0)1483 267422 email: sales@meaco.com

web link: www.meaco.com/testo_professional_class.htm