

Handheld meter for % Relative Humidity and Temperature

Series DM509



The DM 509 portable, battery-operated, thermo-hygro-meter displays directly Relative Humidity or Temperature of the ambient air. The handheld meter is suitable for Relative humidity between 10-95% RH for 'M'-sensors or 0-95% RH for 'T'-sensors.

It will provide up to 200 hours of continuous operation on a 9 volt battery.

- **Display of Relative-Humidity and Temperature**
- **Integrated Probe or probe with spiralised cable**
- **Auto-Power off**
- **Easy to Operate**

The unit features a large high contrast 10 mm LCD display and an indication when battery replacement is needed. Automatic power-off function saves battery life. The DM509 can be equipped with a 'M'-sensor or 'T'-sensor.

The 'T'-sensor has a better linearity and overall accuracy.

Optional available: Humidity reference bottles for a quick check of the instrument; a teflon dust filter to protect the sensor from dust and a leather carrying case to protect the unit.

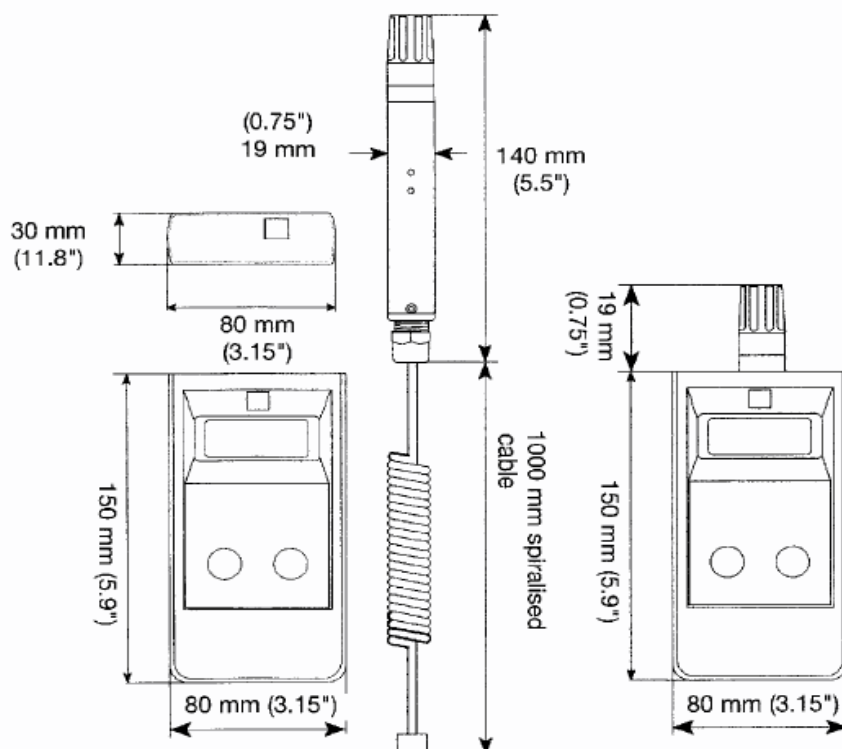
Applications in HVAC, Bakeries, Warehouses, Clean Rooms, Museums Refrigeration, Food Storage.

Order information

Description	Model
Handheldmeter with fixed probe, temp. in ° C	DM-509-M-01
Handheldmeter with fixed probe, temp. in ° F	DM-509-M-02
Handheldmeter with separate probe, temp. in °C	DM-509-T-03
Handheldmeter with separate probe, temp. in °F	DM-509-T-04
Accessories	Partnumber
Leather etui	A-000160
Teflon filter	A-000010
Humidity Reference bottle 12 % RH	A-000050
Humidity Reference bottle 33 % RH	A-000060
Humidity Reference bottle 55 % RH	A-000070
Humidity Reference bottle 75 % RH	A-000080
Humidity Reference bottle 90 % RH	A-000090

Specifications DM-509

Measuring range %RH	: 0...100% RH
Measuring range temperature	: -20.0...60.0 °C (-4...140.0 °F)
Resolution %RH	: 0.1 % RH
Resolution temperature	: 0.1 °C
Accuracy %RH	: ±2 % RH (10..95 % RH,@ 25 °C for M-sensor) 0..95 % RH for T-sensor
Temperature influence	: Typ. 0.05 %RH /°C
Response time	: 60 sec for 90% deviation(air velocity 1 m/s)
Accuracy temperature	: ± 0.2 °C + 1 digit
Power supply	: 9V Alkaline battery (6F22 IEC)
Auto-Power off	: approx. 12 minutes
Low battery	: BAT indication on display
Battery life	: approx. 200 hours (alkaline battery)
Operating temperature	: -20...60 °C (-4...140.0 °F)
Weight	: 0.2 Kg (0.45 lb)
Display	: 3 1/2 digit LCD 10 mm LCD
Dimensions	: 80 x 150 x 30 mm (indicator only) (3.14 x 5.9 x 1.18")



DM-509-T 03/04 with separate probe

DM-509-M 01/02 with integrated probe

RENSE

DEVELOPMENT AND MANUFACTURING OF ELECTRONIC INSTRUMENTS

INSTRUMENTS BV
Burg. van Campenhout 61
NL-4921 KR MADE
The Netherlands

Phone +31-162-470580
Fax +31-162-437566
E-mail sales@rense.nl
Internet www.rense.nl