

Hand-Held Thermometer

with changeable sensor // -199.99...850 °C



MH 3750



UM RTD.2

Highlights – MH 3750

- Excellent measuring accuracy
- Optical and acoustic alarm
- 2 integrated data logger functions
- User-defined characteristic curve (50 value pairs)
- Real time clock with date / month / year indication
- Free scaleable analogue output

Highlights – UM RTD.2

- Excellent measuring accuracy
- Data memory
- 2-, 3- and 4-wire-connection possible
- User-defined characteristic curve
- Switchable measuring inputs

Technical data

Type	MH 3750	UM RTD.2
Measuring range / resolution	-199.99...199.99 °C / 0.01 °C 200.0...850.0 °C / 0.1 °C	-200.00...850.00 °C / 0.01 °C
Accuracy	±0.015 % of range ±1 digit	±0.012 % of reading ±1 digit + k
Equipment		
Input	Pt100	Switchable: Pt50, Pt100, Pt200, Pt500, Pt1000, Cu10, Cu50, Ni100, Ni120, Ni1000, 0...3600 Ω
Multi-conductor connection	4-wire	2- /3- /4-wire
Output	Analogue output 0...1 V, free scaleable	
Measurement features		
Data memory	Data memory Manual - 99 values Cyclic - 16 200 values Adjustable measuring interval 1 s...60 min	Data memory for 10 000 values

Technical data

General data		
Type	MH 3750	UM RTD.2
Units	°C / °F	°C / °F or user-defined
Sensor connection	1x mini-DIN-socket, 4-pole	4x 4 mm-socket 1x 4-pole M8 plug
Linearisation	Offset and gradient Characteristic curve according to DIN EN 60751 User-defined characteristic curve	Offset Characteristic curve according to DIN EN 60751 User-defined characteristic curve
Power supply	Battery supply, 9 V block battery or power supply (optional)	Battery supply, 4x 1.5 V AA or Accu incl. power supply (optional)
PC Interface	Via galvanically isolated interface converter (accessory) directly to RS232 or USB interface	Mini-USB, galvanically isolated / short-circuit proof
Display		
Display	2 x 4½ digit LCD	Multi-functional LCD, 6 digit, with illumination
Functions	Hold, Auto-Off Alarm and time / date Min-/max alarm signal via display, interface and buzzer, Real time clock with year and date	
Housing		
Features	Shock-resistant ABS plastic, foil keyboard, clear window, integrated bracket	Shock-resistant ABS plastic with protective cover
Dimensions (H x B x T)	142 x 71 x 26 mm	157 x 85 x 45 mm
Weight	Approx. 155 g	Approx. 306 g

Article numbers

Order code		
Type	Order number	
MH 3750	EME8GMH3750000	
UM RTD.2	EME8A0UMRTD020	

Order code		
Accessories	Order number	
Transport case	MH 3750	EME8GKK3100000
Transport case (with shaped foam insert)	MH 3750 / UM RTD.2	EME8GKK3600001
Plug connector 4 mm red	UM RTD.2	EME8AOSKLS40RT
Plug connector 4 mm black	UM RTD.2	EME8AOSKLS40SW
Internal battery pack set incl. maine adapter	UM RTD.2	EME8A0AN601100
Battery pack	MH 3750	EME8GAK9V00000
Sensor-specific linearization for UM RTD.2 + TF-Sensor (-30...100 °C)	UM RTD.2	EKTFLINUMRTD100
Sensor-specific linearization for UM RTD.2 + TF-Sensor (RT...250 °C)	UM RTD.2	EKTFLINUMRTD250
Sensor-specific linearization for UM RTD.2 + TF-Sensor (251...500 °C)	UM RTD.2	EKTFLINUMRTD500
Sensor-specific linearization for UM RTD.2 + TF-Sensor (501...650 °C)	UM RTD.2	EKTFLINUMRTD650
Fühlerspezifische Linearisierung for MH 3750 + Pt100-Fühler	MH 3750	EKTF-LINMH3750
Software EBS20M (20 measuring channels)	MH 3750	EME8EBS20M00KA
Software Soft3050 (add-on for logger and alarm)	MH 3750	EME8GSOFT305KA
DAkKS-Certificate (4 points up to 500 °C)	MH 3750 / UM RTD.2	EKTMK00000000D
SIKA works certificate (4 points up to 500 °C)	MH 3750 / UM RTD.2	EKTMK00000000W

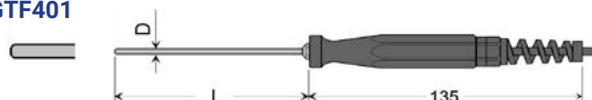
Hand-Held Thermometer

Temperature sensors

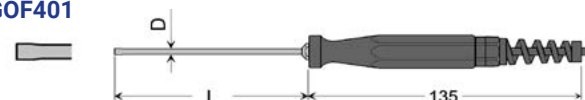
Temperature sensor suitable for MH 3710 and MH 3750

Pt100	Temperature range	L [mm]	D [mm]	Order number
GTF401 Standard sensor	-50...400 °C	150	Ø 3	EME8GTF401000G
GES401 Spike sensor	-50...400 °C	150	Ø 3	EME8GES401000G
GOF401 Surface sensor	-50...400 °C	300	Ø 3 (head = Ø 4)	EME8GOF401000G
GLF401 Air / gas sensor	-50...400 °C	100	Ø 3 (head = Ø 6)	EME8GLF401000G

GTF401



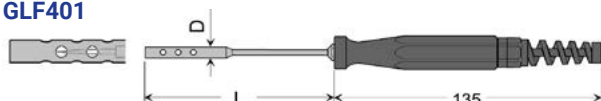
GOF401



GES401



GLF401



Temperature sensor suitable for UM RTD.2

Pt100	Temperature range	L [mm]	D [mm]	Sensitive length [mm]	Order number
TF 255-3-300	-55...255 °C	300	Ø 3	2	W033P413000H3002
TF 650-3-300	-35...650 °C	300	Ø 3	5	W034P413000H3002
TF 650-6-300	-35...650 °C	300	Ø 6	5	W064P413000H3002

