

# Hand-Held Thermometer // for thermocouples // -220...1750 °C



**MH 3211**

## Your advantages

Type	MH 3211
	<ul style="list-style-type: none"> <li>• Excellent measuring accuracy</li> <li>• Serial interface</li> <li>• Surface and gradient correction</li> <li>• Very fast response time</li> </ul>

## Technical data

Type	MH 3211
<b>Measuring range</b>	
→ Type K	NiCr-Ni -220...1370 °C
→ Type T	Cu-CuNi -200...400 °C
→ Type J	FeCu-Ni -200...1100 °C
→ Type N	NiCrSi-NiSi -200...1300 °C
→ Type S	Pt10Rh-Pt -50...1750 °C
→ Type E	NiCr-CuNi -60...850 °C
→ Type B	Pt30Rh-Pt6Rh 300...1750 °C
<b>Accuracy</b>	
→ Type K / J / T / N / E	±(0.5 °C +0.2 % of reading)
→ Type B / S	±(0.8 °C +0.4 % of reading)
<b>Equipment</b>	
<b>Input</b>	Thermocouples K / J / S / T / N / E / B
<b>Measurement features</b>	
<b>Surface measurement</b>	Correction value adjustable, can be switched on if required

General data	
Type	MH 3211
Units	°C / °F
Sensor connection	1 x mini-DIN-socket, 4-pole
Linearisation	Surface and gradient correction
Power supply	Battery supply, 9 V block battery or power supply (optional)
PC Interface	Via galvanically isolated interface converter (accessory) directly to RS232 or USB interface
Display	
Display	2 x 4 digit LCD
Functions	Hold, Auto-Off
Housing	
Features	Shock-resistant ABS plastic, foil keyboard, clear window, integrated bracket
Dimensions (H x B x T)	142 x 71 x 26 mm
Weight	Approx. 155 g

Order code		
Type		Order number
MH 3211		EME8GMH3211000

Order code	
Accessories	Order number
Sensor length (Ø 3 mm: je 100 mm)	on request
Sensor length (Ø 6 mm: je 100 mm)	on request
Other cable length per meter	on request
Transport case	EME8GKK3100000
Battery pack	EME8GAK9V00000
DAkKS-Certificate (4 points up to 500 °C)	EKTMK00000000D
SIKA works certificate (4 points up to 500 °C)	EKTMK00000000W
Software EBS20M (20 measuring channels)	EME8EBS20M00KA
Software Soft3050 (add-on for logger and alarm)	EME8GSOFT305KA

# Hand-Held Thermometer // with changeable sensor // -199.99...850 °C



MH 3750



UM RTD.2

## Your advantages

Type	MH 3750	UM RTD.2
	<ul style="list-style-type: none"> <li>• Excellent measuring accuracy</li> <li>• Optical and acoustic alarm</li> <li>• 2 integrated data logger functions</li> <li>• User-defined characteristic curve (50 value pairs)</li> <li>• Real time clock with date / month / year indication</li> <li>• Free scaleable analogue output</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent measuring accuracy</li> <li>• Data memory</li> <li>• 2-, 3- and 4-wire-connection possible</li> <li>• User-defined characteristic curve</li> <li>• Switchable measuring inputs</li> </ul>

## Technical data

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

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

Order code		
Type		Order number
<b>MH 3750</b>		EME8GMH3750000
<b>UM RTD.2</b>		EME8A0UMRTD020

Order code		
Accessories		Order number
<b>Transport case</b>	MH 3750	EME8GKK3100000
<b>Transport case (with shaped foam insert)</b>	MH 3750 / UM RTD.2	EME8GKK3600001
<b>Plug connector 4 mm red</b>	UM RTD.2	EME8A0SKLS40RT
<b>Plug connector 4 mm black</b>	UM RTD.2	EME8A0SKLS40SW
<b>Internal battery pack set incl. maine adapter</b>	UM RTD.2	EME8A0AN601100
<b>Battery pack</b>	MH 3750	EME8GAK9V00000
<b>Sensor-specific linearization for UM RTD.2 + TF-Sensor (-30...100 °C)</b>	UM RTD.2	EKTFLINUMRTD100
<b>Sensor-specific linearization for UM RTD.2 + TF-Sensor (RT...250 °C)</b>	UM RTD.2	EKTFLINUMRTD250
<b>Sensor-specific linearization for UM RTD.2 + TF-Sensor (251...500 °C)</b>	UM RTD.2	EKTFLINUMRTD500
<b>Sensor-specific linearization for UM RTD.2 + TF-Sensor (501...650 °C)</b>	UM RTD.2	EKTFLINUMRTD650
<b>Fühlerspezifische Linearisierung for MH 3750 + Pt100-Fühler</b>	MH 3750	EKTF-LINMH3750
<b>Software EBS20M (20 measuring channels)</b>	MH 3750	EME8EBS20M00KA
<b>Software Soft3050 (add-on for logger and alarm)</b>	MH 3750	EME8GSOFT305KA
<b>DAkKS-Certificate (4 points up to 500 °C)</b>	MH 3750 / UM RTD.2	EKTMK00000000D
<b>SIKA works certificate (4 points up to 500 °C)</b>	MH 3750 / UM RTD.2	EKTMK00000000W