

## PORTABLE THERMOMETER

**type EMT-50**

**type EMT-55**



- |                          |   |                             |
|--------------------------|---|-----------------------------|
| <input type="checkbox"/> | for use with sensors  | Fe-CuNi (J) (EMT-50-J)      |
|                          |   | NiCr-NiAl (K) (EMT-50-K)    |
|                          |   | NiCrSi-NiSi (N) (EMT-50-N)  |
|                          |   | PtRh10-Pt (S) (EMT-50-S)    |
|                          |   | PtRh13-Pt (R) (EMT-50-R)    |
|                          |   | PtRh30-PtRh6 (B) (EMT-50-B) |
|                          |   | Pt100 (EMT-55)              |
| <input type="checkbox"/> | linearization of the sensor characteristics   |                             |
| <input type="checkbox"/> | automatic compensation of thermocouple cold junction  | (EMT-50-x)                  |
| <input type="checkbox"/> | 3-wire input for compensation of sensor lead resistance and temperature change of lead resistance | (EMT-55)                    |
| <input type="checkbox"/> | low battery indication  |                             |

These thermometers when connected to the above sensors are designed for instant and precise temperature measurements in solids, powders, liquids, vapours and gases. Battery operation, small size and minimal weight make them ideal for use in places with difficult access.

### SPECIFICATION

Measuring range	-100°C ... +700°C (EMT-50-J)
	-100°C ... +1200°C (EMT-50-K)
	0°C ... +1300°C (EMT-50-N)
	+300°C ... +1600°C (EMT-50-S), (EMT-50-R)
	+600°C ... +1600°C (EMT-50-B)
	-100°C ... +800°C (EMT-55)
Resolution	1°C or 0,1°C in range -50,0°C...+199,9°C
Accuracy ( $T_A = 23^\circ\text{C} \pm 5^\circ\text{C}$ )	$\pm 0,15\%$ of temperature range $\pm 1$ digit
Sensor input	socket type <b>MT-Gx</b> <sup>(1)</sup> (EMT-50-x) (x - type of thermocouple)
	socket type <b>MP-G</b> <sup>(2)</sup> (EMT-55)
Display	LCD, maximum reading 1999, height of digits 10,4 mm
Power supply	9 V battery 6F22
Ambient temperature $T_A$	+5°C...+40°C
Dimension / Weight	131 x 58 x 30 mm / 150 g
Additional accessories	thermocouple sensors with plug type MT-x (EMT-50-x)
	Pt100 resistance sensors with plug type MP (EMT-55)

<sup>(1)</sup> **DIN-545** socket or other on demand

<sup>(2)</sup> **JACK 3,5 mm** socket or other on demand

### ORDERING CODE

	(1)	(2)	(3)	(4)
EMT	—	—	—	/

- |     |   |  |
|-----|---|--|
| (1) | Type of sensor measuring element            | <b>50</b> for thermocouples, <b>55</b> for Pt100 |
| (2) | Thermocouple (for EMT-50)                   | <b>J, K, N, S, R, B</b>                          |
| (3) | Sensor input socket, if other then MT or MP | <b>DIN-545, JACK 3,5 mm</b>                      |
| (4) | Additional accessories                      | ordering code for temperature sensor             |

**Example for order:** EMT-55/TP-112Pt100-200-M portable thermometer equipped with disconnectable (socket and plug type MP) Pt100 resistance sensor of outer diameter 5 mm and length 200 mm, with spiral connecting cable of length 1,5 m.