

PORTABLE THERMOMETER

type **EMT-50**

type **EMT-55**



- 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)**
- linearization of the sensor characteristics
- automatic compensation of thermocouple cold junction **(EMT-50-x)**
- 3-wire input for compensation of sensor lead resistance and temperature change of lead resistance **(EMT-55)**
- low battery indication

The meter with its sensor, is used for quick and accurate temperature measurements of solids, powders, liquids, vapors and gases. Battery power, small size and weight make it a portable device for measurements in hard to reach places.

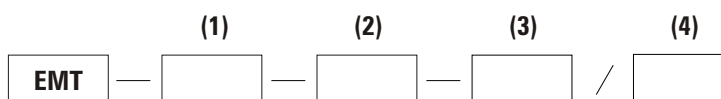
TECHNICAL DATA

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 ± 1 digit
Sensor input	socket type MT-Gx ⁽¹⁾ (EMT-50-x) (x - type of thermocouple)
	socket type MP-G ⁽²⁾ (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)

⁽¹⁾ **DIN-545** socket or other on demand

⁽²⁾ **JACK 3,5 mm** socket or other on demand

ORDERING CODE



(1) Type of sensor measuring element

50 for thermocouples, **55** for Pt100

(2) Thermocouple (for EMT-50)

J, K, N, S, R, B

(3) Sensor input socket, if other then MT or MP

DIN-545, JACK 3,5 mm

(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.