

## Function test-unit FERROTRON TRECAL



The service- and function test-device FERROTRON **TRECAL** is a testing unit to check and calibrate temperature- and oxygen activity-measuring systems. Besides high accuracy and reliability the handy unit offers simulation possibilities of five types of measurements with pre-selectable types of thermocouples. The function test-unit **TRECAL** will directly be connected to the measuring device via cable or via an appropriate lance adapter to the measuring lance (hand-, automatic- or sub lance) for test procedures.

The special features of the FERROTRON **TRECAL** are:

- High precision reference voltage
- Built in cold junction compensation (temperature sensor in the output plug)
- 4-line LED-display with 20 characters each line
- Keyboard with foil and 6 keys for the easiest operation possible
- Distortion voltage can be super-imposed to temperature or/and to EMF-voltage for checking of acceptance by the measuring device
- Insulation check for testing of lance and compensation cable
- Display of temperature selectable in degrees Centigrade or degrees Fahrenheit
- Available option: Check of T-liquidus-channel

### Specification

Check temperature	Three types of thermocouples selectable via keyboard: type S (Pt10Rh), type B (Pt18Rh) or type R (Pt13Rh) 3 temperatures, keyboard-selectable in a range of 0°C to 1700°C, free adjustable in the parameter mode (T-liquidus range 1100°C – 1600°C) Display selectable in °C or °F
Check of EMF	3 EMF-values, keyboard-selectable in a range of -300 mV to +300mV, free adjustable in the parameter mode
Types of measurement	1. Simulation of <i>Temperature probe</i> 2. Simulation of <i>Oxygen probe 3-wires</i> 3. Simulation of <i>Oxygen probe 4-wires</i> 4. Insulation check 5. Simulation of <i>T-Liquidus probe</i> (option)
Accuracy	thermocouples S, R or B (1000 – 1700°C) ± 0,05% ±0,5°C T-liquidus channel S, R or B (1100 – 1600°C) ± 0,05% ±0,1°C EMF channel (-300 mV to +300mV) ± 0,05% ±0,1mV (related to 20°C environmental temp.)
Power supply	4 x 1,5 V Mignon size AA or 4 x 1,2 V MH-accumulator, 1500 mAh, Battery operation for about 200 measurements, automatically controlled
Operation temperature	0 to 40°C
Dimensions	190 x 160 x 75 mm <sup>3</sup> (190 mm width with side bag) Housing made of tough plastic (Polystyrene UL-94HB) in a leather case
Weight	approx. 1,3 kg (complete with batteries, adapter and leather case)
Supply	E116TRECAL - complete device including leather case, batteries, cable connector and one lance adapter E116TRECAlliq - complete device with option T-liquidus channel

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