



masibus



UNIVERSAL CALIBRATOR MODEL UNICAL 3001M

Features

**Microcontroller Based
Base Accuracy 0.03% FS**

Measuring and Simulating thermocouples B, E, J, K, R, S & T
Automatic cold junction compensation
Measuring RTDs Pt-100 and Cu 53
Simulation of RTDs by external resistance module
Measuring of Resistance : 2 K
Measures / Simulates mV, V and mA.

Display in °C or °F
Independent settings for Zero and Span, switch selectable
Digital nulling facility for offset cancellation and differential measurement
Mains-Cum-Rechargeable battery operated with built-in charger to make it portable

Display of ambient temperature
Additional facility to measure / simulate 2 user-defined thermocouples
Thermocouple linearisation by multisegment polynomials
RTD simulator module supplied as standard accessory
Invalid range indication
All values are adjusted by 10 turn coarse and fine potentiometers
Software controlled AUTO CALIBRATION and AUTO ZERO LOOP within measurement cycle ensures zero short term and negligible long term drifts
For 20 mA simulation, full 24 volts compliance voltage provided even in battery mode operation
'Masibus' UNICAL 3001M is a

Microcontroller based Calibrator that combines a total of 20 functions and ranges. It provides highly accurate, stable and fast responding readings in 5 digit resolution, with 1 V basic sensitivity
Unical 3001M is capable of measuring and calibrating instrumentation process signals, with the most stringent accuracy demanded by the industry.
At the heart of the instrument is an 8-bit microcontroller, an 18-bit serial analog to digital converter and indigenously developed dedicated software, that makes this unique calibrator highly reliable.
Calibration certificates traceable to National Standards are provided with

masibus

