

# Calibration Instruments



- Range -40\* to 125/150°C
- Accurate to  $\pm 0,3$  °C
- Stable to  $\pm 0,03$  °C
- RS232 interface
- Windows® based software
- No liquids, safe dry calibration
- 110 mm well depth
- 2 buttons - easy to use



APPROVAL  
A-8737

## TC125/150 Temperature Calibrator

**True calibration** - no simulation. The Tek Know range of "dry block" calibrators generate true reference temperatures using peltier elements. The temperature controller of the calibrators uses a unique sliding PID proportional band algorithm. This response closely follows the heating curve of an actual thermal system.

**Calibration standard** - each instrument supplied by Scan-Sense is calibrated against precision temperature equipment which is traceable to international standards and calibration certificates are supplied with each unit.

**Simple and easy** - place the sensor to be calibrated in the calibrator. Set the temperature.

From the dual line display both true and set temperature can be read. When stabilisation occurs, simply read the temperature and recalibrate the process system or sensor. The Tek Know calibrator may be used for calibration of all types of sensors or complete temperature loops.

**Automatic calibration** - The RS232 port and the optional software make fully automatic calibration possible. The software also assists in keeping accurate records of all calibration works.

**Quality assurance programs** - require the "traceability" provided by Scan-Sense certification. The optional software deals with the extensive documentation required by e.g. ISO9000.



# Technical information

		TCI25	TCI50
Temperature range	°C	-40* to +125	-40* to +150
Calibrated range	°C	-20 to +125	-20 to +150
Resolution	°C	0,01	0,01
Accuracy	±°C	0,3	0,3
Stability	±°C	0,03	0,03
Cooling time to min.	min.	20	20
Heating time to max.	min.	12	50 (15 min to 130°C)
Well depth	mm	110	110
Well dia.	mm	19	19
Thermostat test		yes	yes
RS232		yes	yes
Power supply	V AC	110V (90-130V)	110V (90-130)
		230V (180-250V)	230V (180-250V)
Power consumption	Watt	180	180
Operating temp.	°C	0 to +40	0 to +40
Dimensions	mm	225x125x275	225x125x275
Weight	kg	6,8	6,8

\*Rel. ambient.

Note: Due to continuous product improvements, published specifications may change without notice.

Each unit is supplied in a carrying case and delivery includes 3,5 mm and 6,5 mm inserts, test cable for thermostats, calibration certificate, manual, insert tool and calibration oil.

## Automatic Calibration

Scan-Sense offers a Windows® based software for setting up automatic calibration routines and easy record keeping of calibrators carried out.

For interfacing between the sensor being tested and the PC, Scan-Sense offers the SM300 Signal Master. The SM300 accepts signals from Pt100 - 2, 3 or 4 wire, most types of T/C, mA, mV and V. SM300 is designed for general use also with other equipment like ScanSense` range of pressure calibrators. SM300 has a two line LCD display and may also be used as a "stand alone" high accuracy digital thermometer.

*Scan-Sense AS is a Norwegian company specialising in design and manufacturing of high quality sensors/instrumentation and related software for measurement of temperature, pressure, load and force.*

*Scan-Sense AS supplies portable temperature calibrators from -40°C to 1200°C and a range of EEx/IS approved portable pressure calibrators from vacuum to 1200 Bar.*

Distributed by:

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