



# Calibration Instruments



- Accurate to  $\pm 0,3\%$  °C
- RS 232 interface
- Stable to  $\pm 0,5\%$  °C
- Windows® based software
- No liquids, safe dry calibration
- 155 mm standard well
- 3 buttons - easy to use



## TC400/650 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

		TC400	TC650
Temperature range	°C*	50 to 400	50 to 650
Resolution	°C	0,1	0,1
Accuracy	±°C	0,3	0,5
Stability	±°C	0,05	0,05
Heating time to max.	min.	12	18
Well depth	mm	155	155
Well dia.	mm	26	26
Thermostat test		yes	yes
RS232		yes	yes
Power supply	V AC	110V (90-110V)	110V (90-110)
		110V (100-130V)	110V (100-130V)
		230V (198-250V)	230V (198-250V)
Power consumption	Watt	1600	1600
Operating temp.	°C	0 to +40	0 to +40
Dimensions	mm	226x150x240	226x150x240
Weight	kg	7	7

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

Each unit is supplied in a carrying case and delivery includes 6,5 mm and 10,5 mm inserts, test cable for thermostats, calibration certificate, manual and insert tool.

## Automatic Calibration

Scan-Sense offers a Windows® based software for setting up automatic calibration routines as well as enabling 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 PH00 - 3 or 4 wire, most types of TC, mA, V and mV. SM300 is designed for general use also with other equipment like Scan-Sense` 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 approved portable pressure calibrators from vacuum to 700 Bar.*

Distributed by:

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