



Calibration Instruments



- Fully automatic temperature calibration
- Semi-automatic pressure calibration
- Easy set-up with built-in wizard
- Sensor database
- Readings from most sensors and systems
- RTD, T/C, V, mV and mA inputs
- RS232 interface for PC and temp./pressure calibrators
- Production of calibration reports according to ISO9000 requirements



SC200/SM300 -Automatic calibration system Temperature and Pressure (semi)

Together with the range of temperature and pressure calibrators Scan-Sense offers the SM300 Signal Master, the SC200 (temp.) software and the PreCal (press.) software. These units form complete systems for automatic/semi-automatic calibration and certification of most types of temperature and pressure sensors.

Quality assurance programs – demands of ISO9000 require extensive documentation and the Tek Know system makes calibration semi or totally automatic. Just set it and return for the results and calibration reports according to ISO9000 requirements.

SM300 Signal Master – the SM300 Signal Master can be used as a stand alone instrument reading temperatures directly from Pt100 sensors and T/C, or from sensors with V, mV and mA transmitters. All settings and values are displayed on the LCD display. The SM300 Signal Master may also be used as a link between

temperature sensors and a computer system using SC200 calibration software enabling fully automatic calibration procedures. SM300 Signal Master has two Pt100 inputs and one input can therefore be configured as an external reference sensor.

SC200 temperature calibration software is a Windows® based program designed to communicate with the Tek Know range of temperature calibrators and SM300 Signal Master. The program will support automatic calibration by using SM300 Signal Master or other temperature indicating instruments. Optional drivers are available and multiple languages are standard.

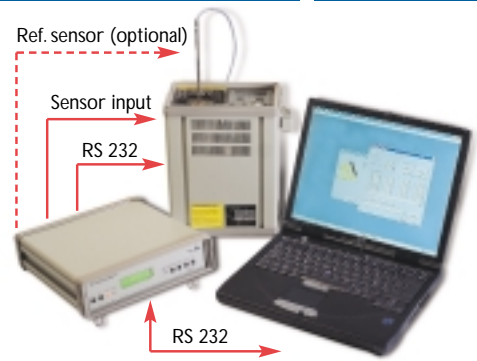
PreCal pressure calibration software is a Windows® based program designed to communicate with the Tek Know range of pressure calibrators and SM300 Signal Master. The program will support semi-automatic calibration by using SM300 Signal Master. English language is standard.



Technical information

SM300 Automatic Calibration unit

Operating temperature:	0 °C to +40 °C
Storage temperatures:	-10 °C to +60 °C
Weight:	2.6 kg
Power supply:	6V rechargeable sealed-lead battery



Input port:	Range	Res.	Accuracy	(%of reading)
A: Pt-100 2, 3 & 4 wire*	-50 °C to 800 °C	0.01 °C	±0,05 °C	±0.009%
Cold junction**	0 °C to 40 °C	0.1 °C	±0.2 °C	
B: Pt-100 2, 3 & 4 wire*	-50 °C to 800 °C	0.01 °C	±0,05 °C	±0.009%
Type K	-100 °C to 1370 °C	0.1 °C	±0,25 °C	±0.03%
Type J	-200 °C to 1200 °C	0.1 °C	±0,25 °C	±0.03%
Type E	-200 °C to 1000 °C	0.1 °C	±0,25 °C	±0.04%
Type T	-200 °C to 400 °C	0.1 °C	±0,25 °C	±0.03%
Type S	0 °C to 1760 °C	0.1 °C	±0,25 °C	±0.03%
Type R	70 °C to 1760 °C	0.1 °C	±0,25 °C	±0.03%
Type B	+400 °C to 1820 °C	0.1 °C	±0,25 °C	±0.03%
Type N	-200 °C to 1300 °C	0.1 °C	±0,25 °C	±0.05%
Voltage, mV***	0mV to +200mV	10µV	20µV	±0.02%
Voltage, Volt***	0V to +30V	1mV	2mV	±0.01%
Current, mA***	0mA to 22 mA	1µA	±2µA	±0,02%

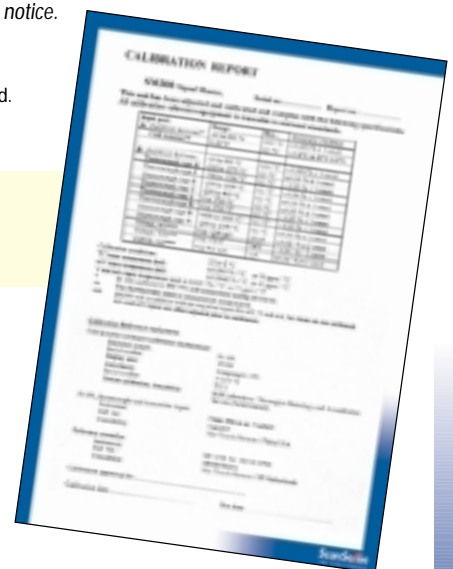
Note : Due to continuous product improvements, published specifications may change without notice.

- * Pt100 conforms to IEC 751 and temperature scaling of ITS-90.
- ** All thermocouple inputs are cold junction compensated.
- *** SM300 will in addition indicate negative inputs for mV, V and mA but these are not calibrated.

T/C input temperature drift:	±0.009%/°C or 90 ppm/°C
mV input temperature drift:	±0.0042%/°C or 42 ppm/°C
V & mA input temperature drift:	±0.0027%/°C or 27 ppm/°C

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 700 Bar.



Distributed by:

www.scansense.no

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