Low price infrared technology for non-contact and quick response surface temperature measurements from -32 up to +760°C (ST80).
All devices with laser pointing appliance!

For measuring transducer for stationary application please refer to page 75

GIM1840-ST25 XB

GIM1840-ST60 XB, GIM1840-ST80 XB

Non-contact infrared digital thermometer (cpl. and ready for operation)

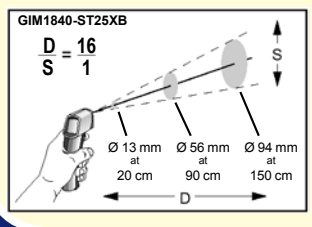
GIM 1840 - ST25 XB
GIM 1840 - ST60 XB
GIM 1840 - ST80 XB

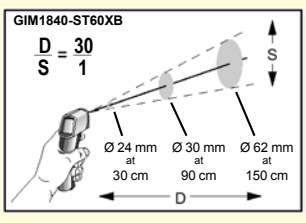
Examples for application:

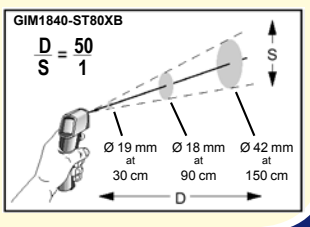
- **PC board test:** super-heated components
- **Ventilation/heating/air conditioning/ civil engineering:** detection of bad insulation, leaking tubes, energy consumption, general service measurements etc.
- **Electric systems, machines, devices:** detection of hot spots at electric connections, heating up of motors, bearings, pumps, compressors etc.
- **Food processing and testing:** temperature of food, storage rooms, processes etc.
- **Medical technology, biological and chemical analyses:** quick-response non-contact temperature measurements, trouble-free operation even when handling dangerous, aggressive media
- **Industry, mechanical engineering, craft and trade:** surface measurements at rotary parts such as rollers, drums, shafts, printing machinery, plastic welding, asphalt, concrete etc.

Specification:	**ST20 XB**	**ST60 XB**	**ST80 XB**
Measuring range:	-32 ... +535 °C	-32 ... +600 °C	-32 ... +760 °C
Resolution:	0.2°C	0.1°C	0.1°C
Temperature display:	°C or °F selectable		
Accuracy: (at ambient temperature = 23°C ±5°C)	±1% of measured value or ±1°C (at > 23°C); ±2°C (-18...23°C); ±2.5°C (-26...-18°C); ±3°C (-32...-26°C)		
Repeat accuracy:	≤ ±0.5% of measured value or ±1°C		
Response time (t_{95}):	0.5 seconds		
Rate of emission:	permanently set to 0.95	digital settings from 0.30 to 1.00	
Laser pointing appliance:	cross over double ray	single ray	single ray
Data memory:	--	12 measurings	12 measurings
Hi-/Lo-alarm:	--	buzzer	buzzer
Probe connection:	--	for Pt1000 probes (p.r.t. page 86)	
Max-value memory:	x	--	--
Max-/Min-value memory:	--	x	x
DIF/mean value:	--	x	x
Hold function:	x	x	x
Re-call of value measured last:	--	x	x
Power supply:	9V-battery type IEC 6F22 (included)		
Display illumination:	press key to switch on/off		
Working temperature:	0 ... 50 °C		
Dimensions:	approx. 160 x 55 x 205 mm	approx. 135 x 40 x 195 mm	approx. 135 x 40 x 195 mm
Weight:	approx. 360 g	approx. 320 g	approx. 320 g
Storage:	cpl. device with carrying bag and hand loop		

OPTION: Certificate of calibration upon request







The new LaserSight - series
Temperatures in the cross-hair

GIM 3590

The measured point will be marked exactly with the precision of a laser cross-hair. The integrated sharp point optics allows measurements of even smallest measuring objects down to 1mm.
Its position sensor turns the display always to the most comfortable orientation.

- **Measuring range -35 to 900°C**
- **switchable focus point optics**
- **laser cross-hair shows real measuring point size**
- **Optical resolution 75:1**
- **Flip-display**
- **additional thermocouple input**
- **USB interface and graphical software**

Specification

Measuring range:	-35.0 ... +900.0°C (IR and thermo couple type K)
TC input:	thermo couple type K
Resolution:	0.1°C
Accuracy IR:	±0.75°C or ± 0.75% of m.v.*)
Accuracy type K: (at 23°C ± 5°C)	±0.75K or ± 1% of m.v. *) *) highest value shall be valid
Response time (t_{95}):	150ms
Optical resolution:	75:1 16mm @ 1200mm
at focus point optic:	1mm @ 62mm
Rate of emission:	0.100 to 1.100, selectable
Meas. functions:	MAX/MIN/HOLD/DIF/AVG/°C/°F
Alarm functions:	acoustic / visual high-low-alarm
Display:	LC Flip-Display with position sensor and bar graph
Backlight:	green or alarm colours (red / blue)
Spectral range:	8 - 14 µm
Working temperature:	0 ... 50°C
Relative humidity:	10 ... 95%, non condensing
Data logger:	100 measurements protocols
Interface:	USB
Software:	oscilloscope software, 20 readings per second
Voltage supply:	2 x AA alkaline battery o. USB
Weight:	420 g
Scope of supply:	USB cable & software, bag, insertion probe type K, batteries, carrying loop, calibration protocol, transport case

Accessories

Certificate of calibration
Tripod