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 78

GIM1840-ST25 XB

GIM1840-ST60 XB, GIM1840-ST80 XB

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**

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

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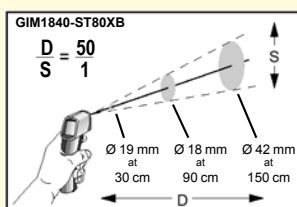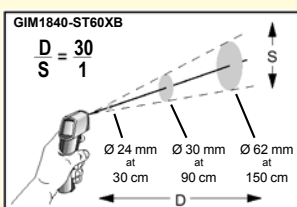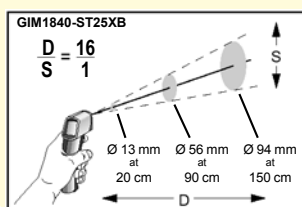# GIM 1840 - ST80 XB

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 90)	
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

GIM1840-ST25XB
$$\frac{D}{S} = \frac{16}{1}$$
Ø 13 mm at 20 cm   Ø 56 mm at 90 cm   Ø 94 mm at 150 cm

GIM1840-ST60XB
$$\frac{D}{S} = \frac{30}{1}$$
Ø 24 mm at 30 cm   Ø 30 mm at 90 cm   Ø 62 mm at 150 cm

GIM1840-ST80XB
$$\frac{D}{S} = \frac{50}{1}$$
Ø 19 mm at 30 cm   Ø 18 mm at 90 cm   Ø 42 mm at 150 cm

GIM3590

Standard	S	20	16	40	70	100	130	mm
	D	0	1200	2000	3000	4000	5000	mm
Focus point	S	17	1		123		262	mm
	D	0	62		500		1000	mm