

184-299
305

testo

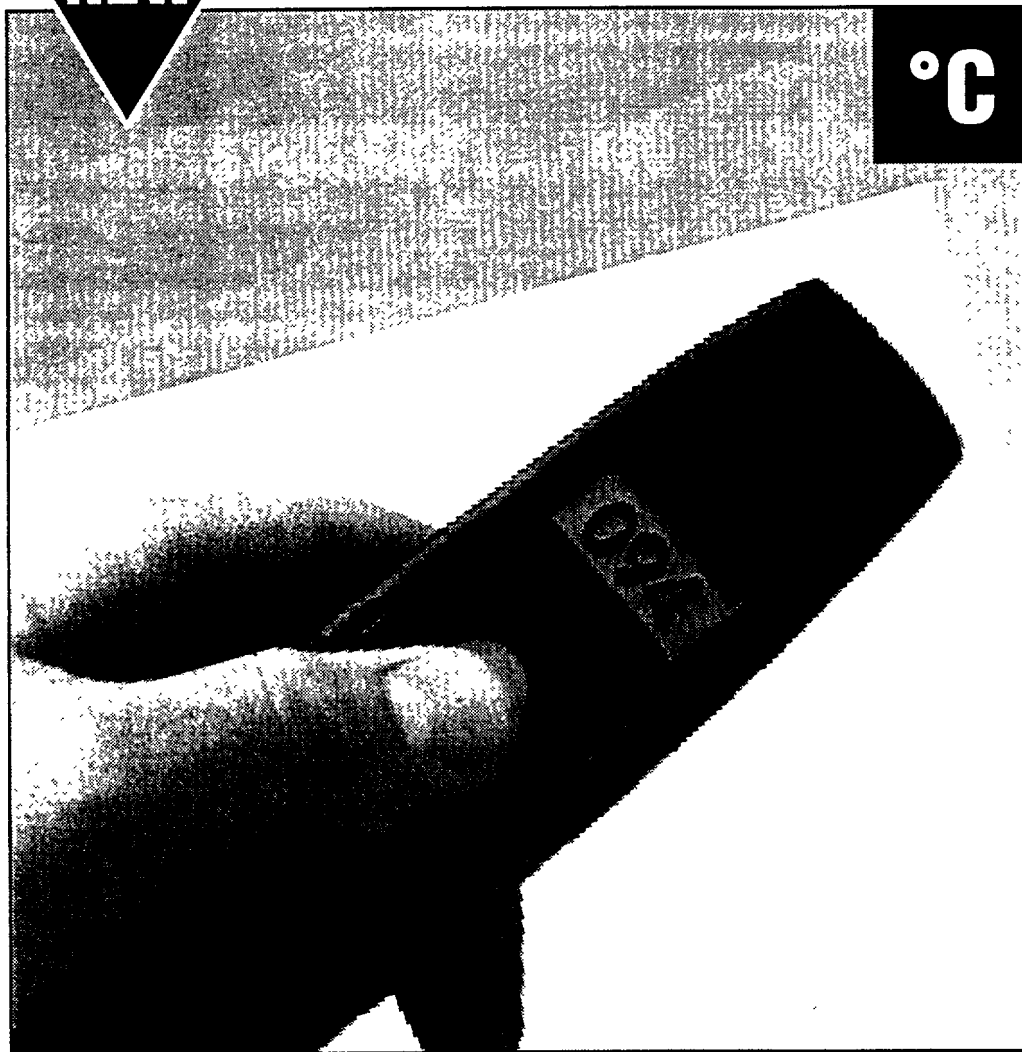
Electronic measurement of
physical and chemical values

Quicktemp 825-1
Quicktemp 825-2

NEW

Low cost infrared thermometer

°C



Technical data

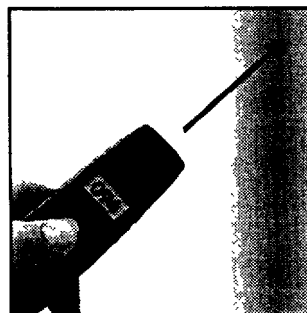
Name	Quicktemp 825-1 Quicktemp 825-2
Product line	HVAC measuring instruments
Parameter	Temperature
Sensor	Infrared temperature sensor
Meas. range	-18 to +315°C 0 to +600°F
Resolution	1°F / 1°C
Accuracy	±2°C / ±3°F or ±2% of m.v. (the larger value always applies)
Emissivity	Preset at E=0.95
Wave length	800 to 1400 µm
Storage temp.	-20 to +70°C
Type of battery	6F22, 9V block
Battery lifetime	825-1 approx. 80h 825-2 approx. 10h
Housing	ABS, black
Dim. (l x w x h)	184 x 43.4 x 19 mm
Weight	Approx. 80 g (without battery)
Other features	• 825-2 with built-in single-beam laser for sighting • Supplied with protection case
Available	Week 13 / 1998
Order no.	0560 8251 (825-1) 0560 8252 (825-2)
Price	825-1: £125 825-2: £200

Advantages:

- Low cost
- Compact pocket size
- Quick, non-contact temperature measurement
- Quicktemp 825-2 with laser sighting
- User-friendly operation

Applications:

- Checking ceiling outlets
- Temperature in compressors
- Testing heating elements and radiators
- Checking electric machines
- Car servicing
- Food
- etc. ...



Quicktemp 825-2 with
laser sighting

Testo Ltd.

3 Onel Court
Omega Park
Alton, Hampshire GU34 2QE
Telephone (01420) 544433
Fax (01420) 544434



Instruction manual

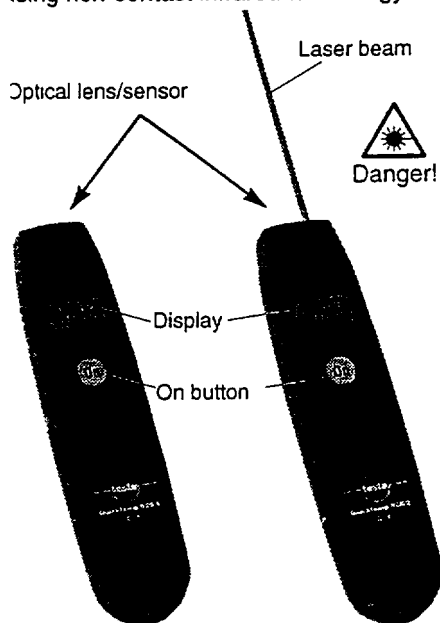
Quicktemp 825-1 (without laser sighting)

Quicktemp 825-2 (with laser sighting)



Thermometer complies with
EN 50081-1 + EN 50082-1

Quicktemp measuring instruments are
and-held battery-operated thermometers
using non-contact infrared technology.

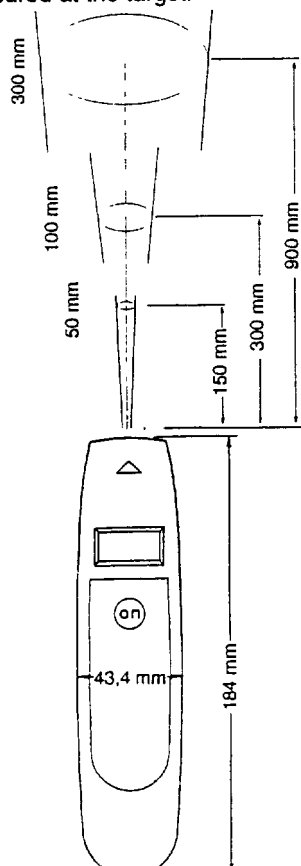


Quicktemp 825-1

Quicktemp 825-2

Size of target

Size of the target depends on the
distance between instrument and target.
Distance-to-target ratio is 3:1. The
instrument shows the mean temperature
measured at the target.



Operation of the Quicktemp is simple.
Just point the sensor at the desired target
and press the On button. The measure-
ment runs for as long as the On button is
kept pressed. After approx. 2 seconds a
reading is made which remains in the dis-
play for 6 seconds once the On button is
released. The instrument then switches
itself off automatically.

Technical data

Temperature range	-18 to 315°C/0 to 600°F
Operating temperature	0 to 50°C/32 to 122°F
Resolution	1°C/1°F
Accuracy	±2°C/±3°F (±1 digit) or ±2 % of m.v. (-18 to 260°C) ±4 % of m.v. (remaining range) The larger value always applies.
Response time	Approx. 2 seconds
Target size/ distance	3:1 (See size of target)
Repeatability	±0.5% of m.v. plus 1 digit
Power supply	9 V battery
Wavelength:	8 to 14 µm
Emissivity:	Preset at E=0.95
Weight:	80 g without battery
Dimensions	184 x 43, 4 x 19mm
Battery lifetime: (continuous measurement)	Quicktemp 825-1: 80 h (Alkali-manganese) Quicktemp 825-2: 10 h (Alkali-manganese)

Warranty

Warranty: 1 year
This warranty does not cover damage caused by
inexpert handling or use of force.

Emissivity

Emissivity is a characteristic of every tar-
get surface and is the ability of that sur-
face to emit energy (heat).
Quicktemp is preset to an emittance
value of 0.95. This value applies to most
organic substances (wood, cloth, plastics
and water, food...).
Highly reflective materials with smooth
polished surfaces have emittance values
much lower than 0.95. When measuring
such materials, we recommend using flat
black paint or attaching Testo emission
adhesive tape (No. 0554.0051) to the tar-
get to soften the reflectiveness.

Subzero measurements

0.06 A decimal point to the left of
the centre digit indicates a sub-
zero temperature reading.



Changing the battery

08.6 A decimal point to the right of
the centre digit indicates low
battery power. Open the back
of the instrument, remove the
used battery and put in the new
9 V battery (observe polarisa-
tion).



Application information

- To ensure accurate temperature readings, it is important to prevent contact or near contact of the sensing lens in the front part of the instrument to hot sources. A minimum distance of 2 cm should be adhered to.
- An adaption time of 30 minutes is needed if the ambient temperature is changed (e.g. from cold vehicle outside to a warm room inside).
- If there is condensation on the front lens, this may lead to incorrect readings.
- Always ensure that only the surface temperature is measured. In the case of limit values, take additional measure-ments using a contact thermometer.

The infrared system

Special optics gather infrared energy from a target surface and focuses this energy onto a custom detector which converts the energy to electrical signals proportionate to the temperature being measured.

The output is a digital temperature mea-
surement in °C or °F within seconds.

Laser sight option

Quicktemp 825-2:

The laser on the front of the housing is
activated by pressing the On button. The
laser produces a red spot on the target
surface which will then be measured.
(Observe size of target.)

Danger

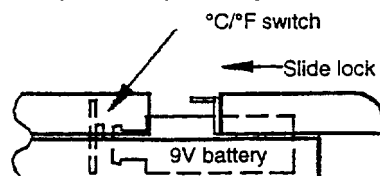


LASER LIGHT - AVOID DIRECT EYE EXPOSURE

Wavelength of laser beam: 670 nm
Output: < 5mW
Laser Class III a

Switching between °C/°F

The °C/°F switch is located in the battery
compartment (See diagram).



Lens cleaning

Debris on the lens may cause obstruction
and reduce accuracy.
If this occurs, either wipe the lens with an
earbud (moistened with water only) or
blow off the loose particles with clean
compressed air.