



**TG32-DISTANCE**

**SANGAN** gasfilled model TG32 series thermometer is available as 100/160 mm. and has a contact built on the dial which is closed with a high bayonet ring. Standard with 1 meter wire pvc. These gasfilled thermometers are suitable for corrosive media and environments in chemical process, petroleum and food industries and are used when temperature must be measured remotely. The standard connection on these thermometers is an adjustable fitting in order to give more flexibility to stem length immersions.

## contact stainless steel gasfilled capillary thermometer

### mounting variations

- type A bottom connection, direct mounting
- type C surface mounting, bottom connection
- type D back connection, direct mounting
- type E panel mounting, back connection
- type F console mounting, bottom connection
- type TGE every angle connection, direct mounting

### technical specification model TG32-distance

| diameter        | dial      | window         | ranges              |
|-----------------|-----------|----------------|---------------------|
| 100/160 mm      | aluminium | glass          | from -80/650 °C     |
| casing          | stem      | element        | connection          |
| AISI304 bayonet | AISI316   | elastic spring | 1/2" bsp adjustable |
| bezel           | stem dia  | pointer        | accuracy            |
| AISI304 bayonet | 12 mm     | fixed          | 2.0% FSD            |

Note: stainless steel capillary is available with or without armoring  
snap-action contacts by magnets.  
available with single or double acting contacts.  
contacts built on the dial.

### options and special executions at extra cost

|                     |  |
|---------------------|--|
| casing              | AISI316  |
| bezel               | AISI316  |
| dials               | customized -i.e., non standard ranges or logos |
| certificates        | calibration-; conformity-; material            |
| manuals             | installation and maintenance                   |
| connection          | NPT, MM, BSPT, acc JIS in various sizes        |
| connection type     | without connection                             |
| connection position | top or side                                    |
| stem diameters      | 1/4" / 3/8" / 1/2" / 6 mm / 8 mm / 10 mm       |
| separate wells      | see index 2.3.                                 |
| capillary           | standard with 2 meter length and armoring      |
| accuracy            | 1% for inductive contacts                      |
| low action contacts | S1/S2/S3/S11/S12/S22/S33                       |
| magnet contacts     | M1/M2/M3/M11/M12/M22/M33                       |
| inductive contacts  | I1/I2/I11/I12/I21/I22                          |

## TG32-DISTANCE - technical data sheet

### operating details

#### working range

|                          | limitations                         |
|--------------------------|-------------------------------------|
| Permanent                | measuring range per EN13 190        |
| Short time ( $\leq 1$ h) | 1,2 x measuring range up to 500 °C  |
|                          | 1,1 x measuring range beyond 500 °C |

#### temperature limitations

|                   | ambient         | process          |
|-------------------|-----------------|------------------|
| without filling   | -40 °C to 60 °C | -80 °C to 650 °C |
| glycerine filling | -25 °C to 60 °C | 15 °C to 80 °C   |
| silicone filling  | -40 °C to 60 °C | -45 °C to 250 °C |

#### pressure rating of stem

25 bar maximum (without termowell)

### design information

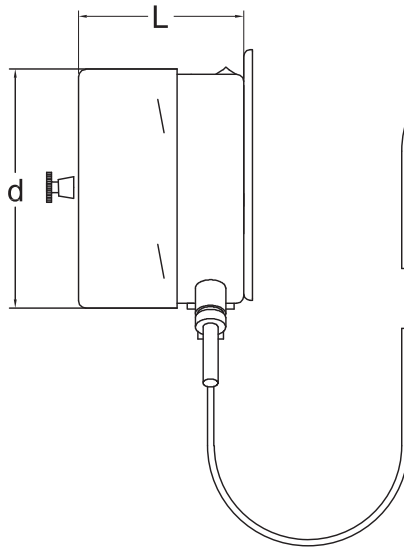
#### ingress protection

IP 54 per EN 60 529 / IEC 529

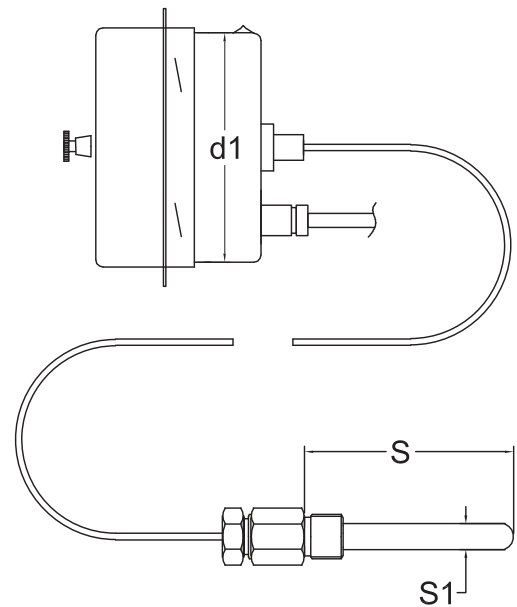
#### design

EN 13 190

### drawings



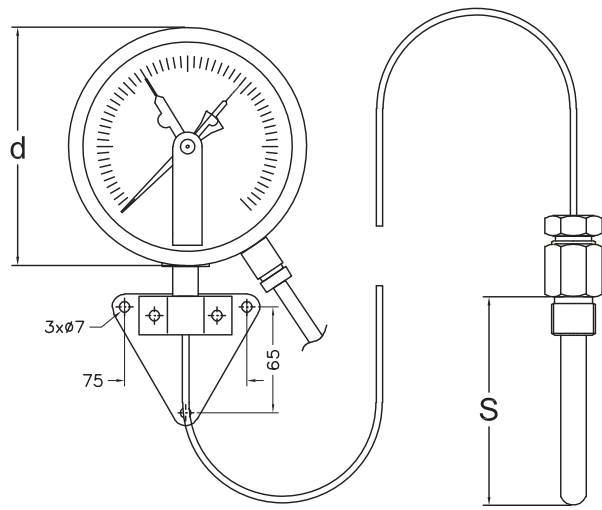
type C



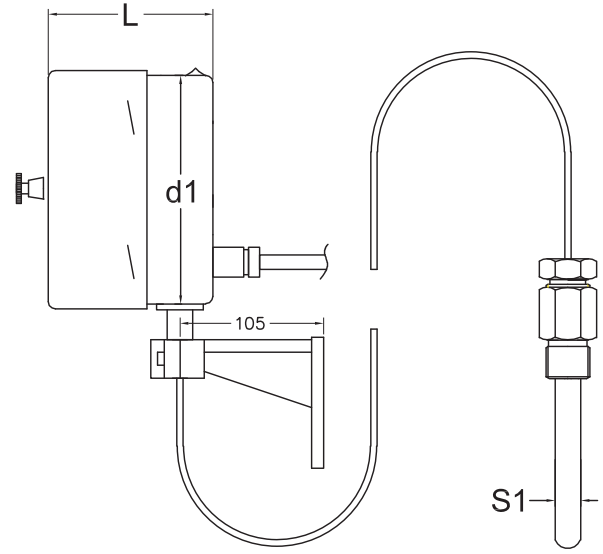
type E

Note: wiring side for dia 100 mm  
wiring back for dia 160 mm  
front and back flange dimensions are on page 18 and 19

## TG32-DISTANCE - technical data sheet



type F



type F

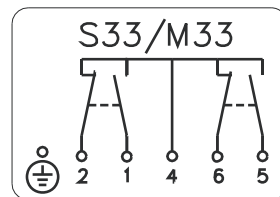
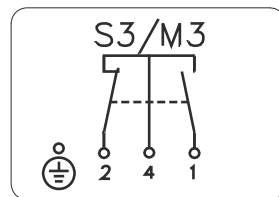
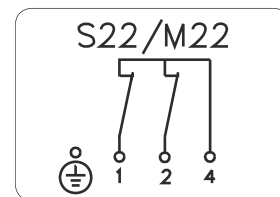
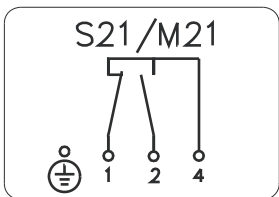
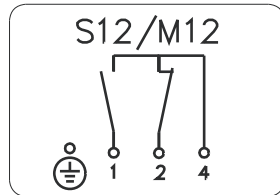
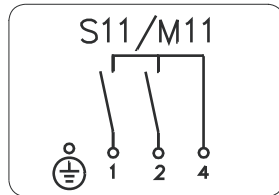
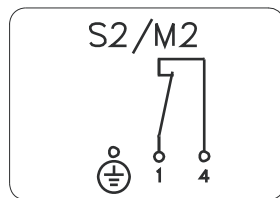
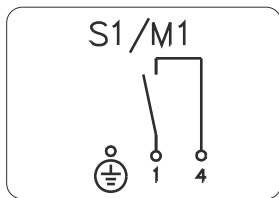
### dimensions

| ns  | d     | d1  | L   | S          | S1 | - | - |
|-----|-------|-----|-----|------------|----|---|---|
| 100 | 102   | 100 | 86  | to specify | 12 | - | - |
| 160 | 161,5 | 159 | 100 | to specify | 12 | - | - |

Note : dimensions are in mm

### electrical wiring for contact gauges

#### low action/magnetic contacts



#### inductive contacts

