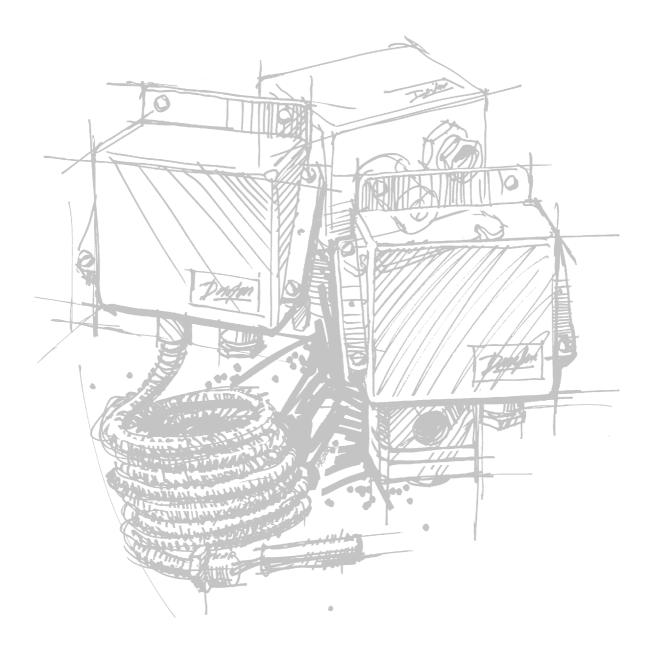
Data sheet



Pressure controls and thermostats type CAS

Danfoss

Pressure controls, type CAS

|) | 10 | 20 | | | 30 |) | | | 40 |) | | | 5 | 0 | | 6 |) b I | ar | Range p ^e bar | Туре | Further information page |
|-----------|------------------------|-----------|-------|------|--------|-------|------|------|--------|----|-----|---|---|-------|--|---|----------|----|--------------------------------|---------|--------------------------------|
| Standard | d pressure co | ntrols | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 0-3.5 | CAS 133 | |
| | | | | | | | | | | | | | | | | | | | 0-10 | CAS 136 | 3 |
| | | | | | | | | | | | | | | | | | | | 6-18 | CAS 137 | 5 |
| | | | | | | | | | | | | | | | | | | | 10-35 | CAS 139 | |
| ressure | e controls for l | high pres | sure | ə an | d stro | ongly | γ pι | Ilsa | ting | me | dia | 3 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 1-10 | CAS 143 | |
| | | | | | | | | | | | | | | | | | | | 4-40 | CAS 145 | 3 |
| | | | | | | | | | | | | | | | | | | | 6-60 | CAS 147 | 5 |
| oifferent | tial pressure <i>Δ</i> | p 0.2-2.5 | 5 bai | r | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 0.2-2.5 | CAS 155 | 3 |

Thermostats, type CAS

| 0 | | 3 | 0 | | 60 |) | | 9 | 0 | | 12 | 20 | | 15 | 50 | | C' | > | Range C° | Туре | Further information page |
|---|--|---|---|--|--------|---|--|---|---|--|----|----|--|----|--------|--|----|---|-------------|---------|--------------------------------|
| | | | | | | | | | | | | | | | | | | | 20-80 | CAS 178 | |
| | | | | | | | | | | | | | | | | | | | 70-120 | CAS 180 | 8 |
| | | | | | | | | | | | | | | | | | | | 60-150 | CAS 181 | 0 |

ISO 9001 quality approval



Danfoss A/S is certified by BSI in accordance with international standard ISO 9001. This means that Danfoss fulfils the international standard in respect of product development, design, production and sale. BSI exercises continuous inspection to ensure that Danfoss observes the requirements of the standard and that Danfoss' own quality assurance system is maintained at the required level.

Introduction

CAS units are pressure-controlled switches. The position of the contacts depends on the pressure in the inlet connection and the set value. In the series, special attention has been given to meeting demands for

- a high level of enclosure
- low differential
- robust and compact construction
- resistance to shock and vibration.

Preferred versions

Technical data and ordering

When ordering, please state type and code number



CAS 133, 136, 137, 139



CAS 143, 145, 147



CAS 155

| Setting range p ^e (bar) | Mechanical differential (bar) | Permissible operating pressure (bar) | Max. test pressure (bar) | Min. burst pressure (bar) | Pressure connection | Code no. | Туре |
|--|-------------------------------------|--|--------------------------------|---------------------------------|---------------------|----------|---------|
| $0 \rightarrow 3.5$ | 0.1 | 10 | 10 | 40 | G ¼ | 060-3150 | CAS 133 |
| $0 \rightarrow 10$ | 0.2 | 22 | 22 | 40 | G ¼ | 060-3151 | CAS 136 |
| $6 \rightarrow 18$ | 0.3 | 27 | 27 | 72 | G ¼ | 060-3152 | CAS 137 |
| $10 \rightarrow 35$ | 0.6 | 53 | 53 | 100 | G ¼ | 060-3153 | CAS 139 |

Pressure controls for high pressure and strongly pulsating media

| Setting range p ^e (bar) | Mechanical differential (bar) | Permissible operating pressure (bar) | Max. test pressure (bar) | Min. burst pressure (bar) | Pressure connection | Code no. | Туре |
|--|-------------------------------------|--|--------------------------------|---------------------------------|---------------------|----------|---------|
| $0 \rightarrow 10$ | 0.2-0.6 | 120 | 180 | 240 | G ¼ | 060-3160 | CAS 143 |
| $4 \rightarrow 40$ | 0.8-2.4 | 120 | 180 | 240 | G ¼ | 060-3161 | CAS 145 |
| $6 \rightarrow 60$ | 1-3 | 120 | 180 | 240 | G ¼ | 060-3162 | CAS 147 |

Differential pressure control type CAS

| Setting range p ^e (bar) | Mechanical differential (bar) | Permissible operationg pressure for low pressure (bar) | Max. test pressure (bar) | Min. burst pressure (bar) | Pressure connection | Best.nr. | Туре |
|--|-------------------------------------|--|--------------------------------|---------------------------------|---------------------|----------|---------|
| 0.2-2.5 | 0.1 | 0-8 | 22 | 42 | 2 x G ¼ | 060-3130 | CAS 155 |

Terminology

Range setting

The pressure range within which the unit will give a signal (contact changeover).

Differential

The difference between make pressure and break pressure (see also page 7).

Permissible bursting pressure

The highest permanent or recurring pressure the unit can be loaded with.

Max. test pressure

The highest pressure the unit may be subjected to when, for example, testing the system for leakage. Therefore, this presure must not occur as a recurring system pressure.

Min. burst pressure

The pressure which the pressure-sensitive element will withstand without leaking.

The CAS series covers most outdoor as well as indoor application requirements. CAS pressure controls are suitable for use in alarm and regulation systems in factories, diesel plant, compressors, power stations and on board ship.

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Switch

Microswitch with single pole changeover (SPDT)

Contact load Alternating curren

Alternating current: 220 V, 0.1 A, AC-14 and AC-15 (inductive load) Direct current:125 V, 12 W DC-13 (inductive load)

Materials in contact with the medium

| | CAS 133, | Bellows: | Stainless steel, material no. 1.4306 (DIN 17440) |
|---|-------------|-------------|---|
| L | 136, | Pressure | |
| | 137, | connection: | Brass material no. 2.0401 |
| | 139 | | (DIN 17660) |
| Γ | CAS | Diaphragm | |
| | 143, | connection: | Nickel plated brass CuZn |
| | 145, | | 40 Pb3 ISO R 426 |
| | 147, | | (DIN 1756) |
| | 155 | Diaphragm: | Nitrile-butadien rubber |
| - | | - | |

Ambient temperature CAS 133-139: -40 to +70°C CAS 143-155: -25 to +70°C

Dimensions and weight

Temperature of medium CAS 133-139: -40 to + 100°C CAS 143-155: -25 to + 100°C For water and seawater, max. 80 °C

Vibration resistance Vibration-stable in the range 2-30 Hz amplitude 1.1 mm and 30-100 Hz, 4 G.

Enclosure

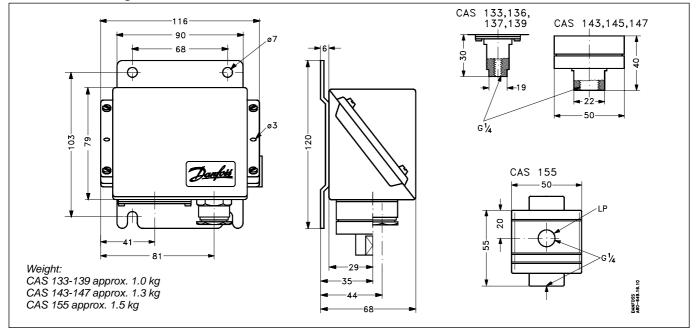
IP 67 acc. to IEC 529 and DIN 40050. The pressure control housing is enamelled pressure die cast aluminium (GD-AISi 12). The cover is fastened by four screws which are anchored to prevent loss. The enclosure can be sealed with fuse wire.

Cable entry

Pg 13.5 for cable diametrers from 5 to 14 mm.

Identification

The type designation and code no. of the unit is stamped in the side of the housing.



Approvals

CE - marked acc. to EN 60947-5-1

Ship approvals

American Bureau of Shipping, USA (excl. CAS 139) Bureau Veritas, France Det Norske Veritas, Norway Germanischer Lloyd, Germany Lloyd Register of Shipping, UK Nippon Kaiji Kyokai, Japan

Polski Rejestr Statkóv, Poland Registro Italiano Navale, Italy RMRS, Russian Maritime Register of Shipping

Note: In addition we refer to the certificates, the copies of which can be ordered from Danfoss.

GL approval is conditional on the use of a ship's cable entry.

GL

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Accessories

| Part | | Description | Qty. | Code no. |
|--------------------------|-----------------|--|------|----------|
| Connector with nipple | 0 000 000 | Pipe thread ISO 228/1, G $^{3}/_{8}$ connector, nipple and AL washer (10 mm ext. 8 mm int. diam) for solering onto steel or copper tubing, steel span of jaws 22 | 5 | 017-4368 |
| Connector with nipple | 0 op () | G ³ / ₈ connector, nipple and washer (10 mm ext./ 6.5 mm int. diam.) for welding, steel span of jaws 22 | 1 | 017-4229 |
| Reducer | 0 😥 | Pipe thread ISO 228/1, G ³ / ₈ x ⁷ / ₁₆ - 20 UNF reducer, washer, brass span of jaws 22 | 5 | 017-4205 |
| Adaptor | 0 | Pipe thread ISO 228/1, G $^{3}\!/_{8}$ x $^{1}\!/_{8}$ - 27 NPT with copper washer brass span of jaws 22 | 1 | 060-3334 |
| Adaptor | ∰ 0 | Pipe thread ISO 228/1, G ³ / ₈ A x ¹ / ₄ - 18 NPT with copper washer brass span of jaws 22 | 1 | 060-3335 |
| Adaptor | 0 ()))) | Pipe thread ISO 228/1, G $_{\rm /8}^{\rm x}$ t/4 - 18 NPT with copper washer brass span of jaws 22 | 1 | 060-3336 |
| Adaptor | | $^{7/_{16}}\text{-}$ 20UNF x R $^{3/_{6}}$ (ISO 7/1) brass, span of jaws 19 | 1 | 060-3240 |
| Nipple | a andh m | G 1/4 A x G 3/8 A | | 060-3332 |
| | | G ¹ / ₄ A x ext. M10 x 1 with washer | | 060-3338 |
| Damping coil | Q o | Pipe thread ISO 228/1, damping coil with G ³ / ₈ connector and 1.5 m copper capillary tube. Standard washers are supplied | 1 | 060-1047 |
| Armoured damping coil | | Pipe thread ISO 228/1, damping coil with G ³ / ₈ connector and 1 m copper capillary tube. Standard washers are suppled | 1 | 060-3333 |

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Installation

Installation

CAS pressure controls are fitted with a 3 mm steel mounting plate. The units should not be allowed to hang from the pressure connection.

Pressure connection

When fitting or removing pressure lines, the spanner flats on the pressure connection should be used to apply counter-torque.

Steam plant

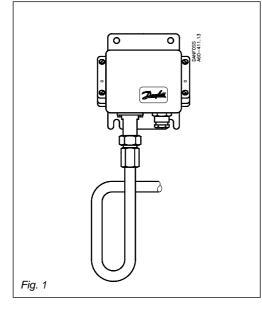
To protect the pressure element from excessive heat, the insertion of a water-filled loop is recommended. The loop can, for example, be made of 10 mm copper tube as shown in fig. 1.



If the pressure medium is superimposed with severe pulsations, which occur in automatic sprinkler systems (fire protection), fuel systems for diesel motors (priming lines), and hydraulic systems (e.g. propeller systems), etc, types case 143, 145, 147 are recommended. The maximum permissible pulsation level for these types is 120 bar.

Setting

When the pressure control cover is removed, and the locking screw (3) is lossened, the range can be set with the spindle (1) while at the same time the scale (2) is being read.

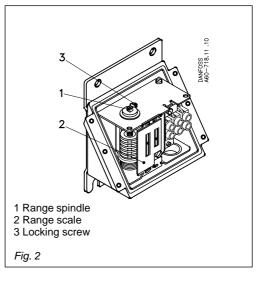


Water systems

Water in the pressure element is not harmful, but in case of frost a water-filled pressure element may burst. To prevent this happening, the pressure control can be allowed to operate on an air cushion.

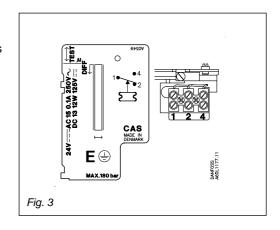
Media resistance

Se table of materials in contact with the medium, page 4. If seawater is involved, types CAS 143, 145, 147 are recommended.



Electrical connection

CAS pressure controls are fitted with a PG 13.5 screwed cable entry that is suitable for cable diameters from 5 to 13 mm. GL approval is however conditional on the use of a special ship's cable entry. Contact function is shown in fig. 3.



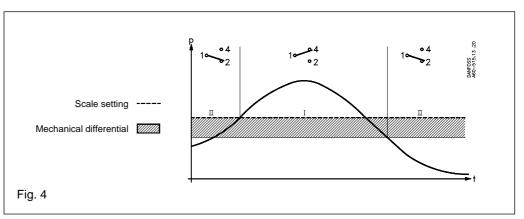
an

Function

a. CAS 155

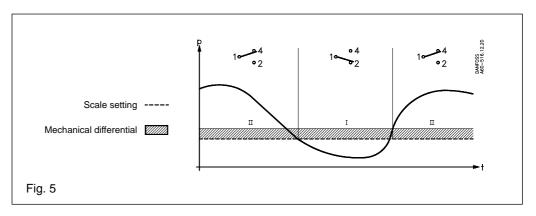
Contacts 1-4 make and contacts 1-2 break when the differential pressure rises above the set range value. The contacts changeover to their initial position when the differential pressure again falls to the range value minus the differential (see fig. 4).

- I. Alarm for rising differential pressure given at the set range value.
- Alarm for falling differential pressure given at the set range value minus the differential.



b. All other CAS pressure controls Contacts 1-2 make and contacts 1-4 break when the pressure falls under the set range value. The contacts changeover to their initial position when the pressure again rises to the set range value plus the differential (see fig. 5).

- I. Alarm for falling pressure given at the set range value.
- II. Alarm for rising pressure given at the set range value plus the differential.



Example 1:

An alarm must be given when the lubrication oil pressure in a motor falls below 0.8 bar. Select CAS 133 (range 0 to 3.5 bar). The minimum permissible lubricating oils pressure of 0.8 bar must be set using the range spindle. The differential is fixed at 0.1 bar, i.e. the alarm will not cut out before the pressure rises to 0.9 bar. The switch break function is normally used for alarm purposes, i.e. the alarm must be connected to terminals 1 and 4.

Example 2:

When the differential pressure exceeds 1.3 bar a filter must be cleaned. The maximum static pressure (LP) for teh CAS 155 of 8 bar must be exceeded. The pressure control range spindle must be set at 1.3 bar.

The alarm must be connected to terminals 1 and 2 (alarm for broken circuit).

Introduction

CAS thermostats are temperature-controlled switches. The position of the contacts depends on the temperature of the sensor and the set scale value. In this series, special attention has been given to meeting demands for a high level of enclosure, robust and compact construction, and resistance to shock and vibration. The CAS series covers most outdoor as well as indoor application requirements. CAS thermostats are suitable for use in monitoring and alarm systems in factories, diesel plant, compressors, power stations and on board ship.

Preferred versions

When ordering, please state type and code number

Technical data and ordering



CAS with remote sensor, armoured capillary tube

| Setting range | Mechanical differential adjustable/ fixed | Max. sensor temperature | (see a | Suitat ensor le Iso "Acc | ength | es") | Capillary tube length | Code no. | Туре |
|---------------------|--|-------------------------------|--------|--------------------------------|-------|------|--------------------------|----------|---------|
| °C | °C | °C | | mm | I | | m | | |
| $20 \rightarrow 80$ | 2.0 | 130 | 65 | 75 | 110 | 160 | 2 | 060L3151 | CAS 178 |
| 70 ightarrow 120 | 2.0 | 220 | 65 | 75 | 110 | 160 | 2 | 060L3153 | CAS 180 |
| 60 ightarrow 150 | 2.0 | 250 | 65 | 75 | 110 | 160 | 2 | 060L3155 | CAS 181 |

Switch Mikroswitch with single pole changeover (SPDT)

Contact load Alternating current: 220 V, ~0,1 A, AC-14 and AC-15 (inductive load)

Direct current 125 V, 12W DC-13 (inductive load)

Ambient temperature CAS 178,180 and 181: $-25 \rightarrow +70^{\circ}$ C

Vibration resistance Vibration-stable in the range 2-30 Hz, amplitude 1,1 mm and 30-100 Hz, 4 G.

CE marked acc. to EN 60947-5-1

American Bureau of Shipping, USA

Lloyd Register of Shipping, UK Nippon Kaiji Kyokai, Japan

Polski Rejestr Statkóv, Poland Registro Italiano Navale, Italy RMRS, Russian Maritime Register of

Bureau Veritas, Frankrig Det Norske Veritas, Norway Germanischer Lloyd, Germany

(GL)

(PR)

Shipping

Approvals

Ship approvals

Enclosure

IP 67 acc. to IEC 529 and DIN 40050. The thermostat housing is enamelled pressure die cast aluminium (GD-AISI 12). The cover is fastened by four screws which are anchored to prevent loss.

The enclosure can be sealed with fuse wire.

Cable entry

Pg 13.5 for cable diameters from 5 to 14 mm.

Identification

The type designation and code no. of the unit is stamped in the side of the housing.

Note: In addition we refer to the certificates, the copies of which can be ordered from Danfoss.

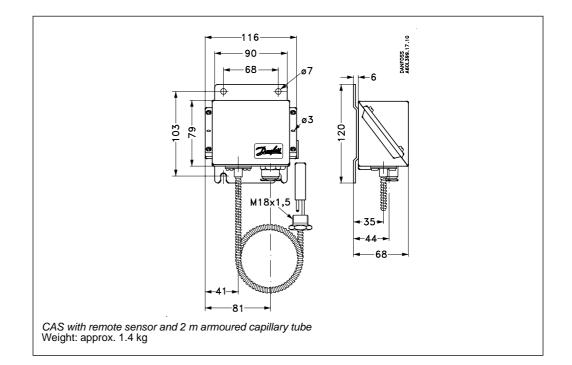
GL approval is conditional on the use of a ship's cable entry.

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| Accesories: Sensor pockets for thermostats | Sensor pocket | A mm | Thread B | Code no. | Sensor pocket | A mm | Thread B | Code no. |
|--|------------------|----------------------------|---|--|------------------|------------|--|----------------------|
| | Brass | 65 | ¹ / ₂ NPT | 060L3265 | | | | |
| .13.10 | Brass | 75 75 75 75 75 | ¹ / ₂ NPT G ¹ / ₂ A G ³ / ₄ A G ¹ / ₂ A (ISO 228/1) G ³ / ₄ A (ISO 228/1) | 060L3264 060L3262 060L3266 060L3281 060L3404 | Steel 18/8 | 75 | G 1/2 A | 060L3267 |
| 15 Barross Age-566.13.10 | Brass | 110 110 110 110 | ^{1/2} NPT G ^{1/2} A G ^{1/2} A (ISO 228/1) G ³ / ₄ A (ISO 228/1) | 060L3280 060L3271 060L3406 060L3403 | Steel 18/8 | 110 110 | G ¹ / ₂ A ¹ / ₂ NPT | 060L3268 060L3270 |
| AA/ M18x1.5 | Brass | 160 160 160 | G ¹ / ₂ A G ¹ / ₂ A (ISO 228/1) G ³ / ₄ A (ISO 228/1) | 060L3263 060L3407 060L3405 | Steel 18/8 | 160 | G 1/2 A | 060L3269 |
| | Brass | 200 200 200 | G ¹ / ₂ A G ¹ / ₂ A (ISO 228/1) G ³ / ₄ A (ISO 228/1) | 060L3206 060L3408 060L3402 | Steel 18/8 | 200 200 | G ¹ / ₂ A G ³ / ₄ A | 060L3237 060L3238 |
| | Brass | 250 | G 1/2 A | 060L3254 | | | | |
| Note: all sensor pockets are supplied without | Brass | 330 | G 1/2 A | 060L3255 | | | | |
| gland nut, gaskets and | Brass | 400 | G 1/2 A | 060L3256 | | | | |
| washers. | Brass | 500 | G 1/2 A | 060L3257 | | | | |

| Other accessories | | Description | Qty./unit | Code no. |
|---|---|--|-----------|----------|
| Clamping band | | For CAS-termostats with remote sensor (L = 392 mm) | 10 | 017-4204 |
| Heat conductive compound (Tube with 4.5 cm ³) | O | For CAS thermostats with sensor fitted in a sensor pocket. For filling sensor pocket to improve heat transfer between pocket and sensor. Application range for compound: -20 to +150 °C, momentarily up to 220 °C. | 1 | 041E0110 |

Dimensions and weight



anto

Installation

Location of unit: CAS thermostats are designed to withstand the shocks that occur, for example, in ships on compressors and in large machine installations. CAS thermostats are fitted with a base of 3 mm steel plate for fixing to bulkheads, etc.

Resistance to media Material specifications for sensor pockets.

Sensor pocket brass

The tube is made of Ms 72 to DIN 17660, the threaded portion of So Ms 58 Pb to DIN 17661.

Sensor pocket, stainless steel 18/8 Material designation 1.4305 to DIN 17440.

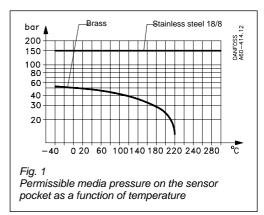
Sensor position

As far as possible the sensor should be positioned so that its longitudinal axis is at right angles to the direction flow. The active part of the sensor is \emptyset 13 mm x 47.5 mm.

The medium

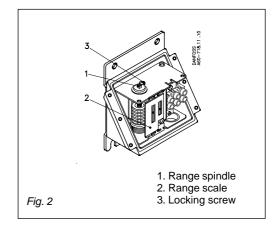
The fastest reaction is obtained from a medium having high specific heat and high thermal conductivity. It is therefore advantageous to use a medium that fulfils these conditions (provided there is a choice). The flow velocity of the medium is also of significance. (The optimum flow velocity for liquids is about 0.3 m/s).

For permissible media pressure see fig. 1.



Setting

When the thermostat cover is removed, and the locking screw (3) fig. 2 is loosened, the range can be set with the spindle (1) while at the same time the scale (2) is being read.



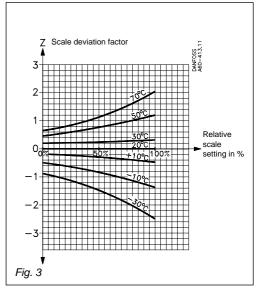
Scale correction

The sensor on CAS thermostats contains an adsorption charge. Therefore function is not affected whether the sensor is placed warmer or colder than the remaining part of the thermostatic element (bellows and capillary tube). However, such a charge is to some extent sensitive to changes in the temperature of bellows and capillary tube. Under normal conditions this is of no importance, but if the htermostat is to be used in extreme ambient temperatures there will be a scale deviation. The deviation can be compensated for as follows:

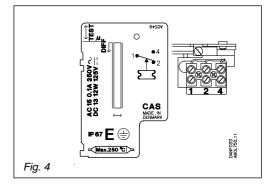
Scale correction = Z x a

Z can be found from fig. 3, while a is the correction factor from the table below. (See example, page 11).

| Туре | Regulation range °C | Correction factor a for thermostats |
|---------|---------------------------|-------------------------------------|
| CAS 178 | 20 → 80 | 2.5 |
| CAS 180 | 70 → 120 | 2.4 |
| CAS 181 | 60 → 150 | 3.7 |



Electrical connection CAS thermostats are fitted with a Pg 13.5 screwed cable entry suitable for cables from 5 to 14 mm. GL approval is conditional on the use of a ship's cable entry. Contact function, see fig. 4.



Function

Differentials

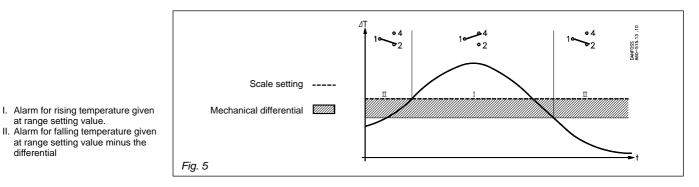
The mechanical differential is the differential determined by the design of the thermostat. The thermal differential (operating differential) is the differential the system operates on. The thermal differential is always greater than the mechanical differential and depends on three factors:

- 1) Medium flow velocity
- Temperature change rate of the medium 2)
- and
- 3) Heat transmission to the sensor

Thermostat function

Contacts 1-4 make while contacts 1-2 break when the temperature rises above the scale setting.

The contacts changeover to their initial position when the temperature falls to the scale setting minus the differential. See fig. 5.



Examples

differential

at range setting value.

Example 1

Diesel engine with cooling water temperature of 85°C (normal). An alarm must be triggered if the cooling water temperature exceeds 95°C. Choose a CAS thermostat 180 (range +70 to 120°C). Main spindle setting: 95°C.

The required alarm function is obtained by connecting to thermostat terminals 1-4.

Example 2

Find the necessary scale correction for a CAS 180. Set +95°C at +50°C ambient temperature.

The relative scale setting Z can be calculated from the following formula:

```
Setting value - min. scale value
                                     × 100 = %
max, scale value - min, scale value
```

95 - 70 Relative scale setting: × 100 = 50% 120 - 70

Factor for scale deviation Z fig. 3, Z ~ 0.7 Correction factor a, see table page 10, fig. 3 = 2.4. Scale correction = $Z \times a = 0.7 \times 2.4 = 1.7^{\circ}C$ CAS must be set at 95 + 1.7 = 96.7°C

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Conversion table

| | Pascal (= Newton per. square metre) | Newton per square mm | | Kilopond per squre metre | Meter water gauge | Technical atmosphere | Physical atmosphere | Torr (0°C) | Inches Hg (0°C) | Poundforce per Square inch |
|----------------------|--|--------------------------|--------------------------|--------------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------------|
| | (N/m ²) | | | (mm H ₂ 0) | | (kp/cm ²) | | | | (lbf/in ²) |
| | Ра | N/mm ² | bar | kp/m ² | $m H_20$ | at | atm | mm Hg | in Hg | psi |
| 1 Pa | 1 | 10 ⁻⁶ | 10 ⁻⁵ | 0.1020 | 1.020 · 10 ⁻⁴ | 1.020 · 10 ⁻⁵ | 9.869 · 10 ⁻⁵ | 7,500 · 10 ⁻³ | 2,953 · 10 ⁻⁴ | 1.450 · 10 ^{.4} |
| 1 N/mm ² | 10 ⁶ | 1 | 10 | 1.020 •105 | 102.0 | 10.20 | 9.869 | $7,5 \cdot 10^{3}$ | 295,3 | 145.0 |
| 1 bar | 10 ⁵ | 0,1 | 1 | $10.197 \cdot 10^{3}$ | 10.20 | 1.020 | 0.9869 | 750 | 29,53 | 14.50 |
| 1 kp/m ² | 9.80665 | 9.807 · 10 ⁻⁶ | 9.807 · 10 ⁻⁵ | 1 | 10 ⁻³ | 10 ⁻⁴ | 0.9678 · 10 ⁻⁴ | 0,07355 | 2,896 · 10 ⁻³ | 1.422 · 10 ⁻³ |
| 1 m H ₂ 0 | 9806.7 | $9.807 \cdot 10^{3}$ | 0.09807 | 1000 | 1 | 0,1 | 0.09678 | 73,55 | 2,896 | 1.422 |
| 1 at | $98.066 \cdot 10^3$ | 0.09807 | 0.9807 | 104 | 10 | 1 | 0.9678 | 735,5 | 28,96 | 14.22 |
| 1 atm | $101.325 \cdot 10^{3}$ | 0.1013 | 1.013 | $10.333 \cdot 10^{3}$ | 10.33 | 1.033 | 1 | 760 | 29,92 | 14.70 |
| 1 mm Hg | 133.32 | 1.333 · 10 ⁻⁴ | 1.333 · 10 ⁻³ | 13.60 | 0.01360 | 1.360 ·10 ⁻³ | 1.316 · 10 ⁻³ | 1 | 0,03937 | 1.934 · 10 ⁻² |
| 1 in Hg | 3387 | 3.387 · 10 ⁻³ | 0.03387 | 345.3 | 0.3453 | 0.03453 | 0.03342 | 25,4 | 1 | 0.4912 |
| 1 psi | 6895 | 6.895 · 10 ⁻³ | 0.06895 | 703.1 | 0.7031 | 0.07031 | 0.06804 | 51,71 | 2,036 | 1 |

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