Visual index

Series 1
Test point fitting with pin-lock

Series 3
Test point with threaded connection
M 16×2

SensoControl®
Product range
Diagnostic/Industrial
Parker SensoControl® Test Points

EMA1/EMA3-Test Point fitting

- For pressure monitoring and checking on high, low and negative pressure systems.
- For bleeding cylinders and hydraulic systems.
- For taking samples on high, low and negative pressure systems.

Advantages:
- Leakfree connection before valve is open
- Sturdy, safe constructions for small dimensions
- Easy handling
- Simple connection of measuring, control and switching devices
- Coupling under pressure up to 400 bar is possible with screw couplings
- Nominal pressures up to 630 bar
- Self locking metal guard cap, vibration resistant

Sealing system of the primary seal:
EMA1 by ball non-return valve.
EMA3 by cone seal with O-ring.
The new EMA3 sealing system guarantees minimum leakage rates.

The screw-on Cap (EMA3), and pin lock (EMA1) types both employ an O-ring seal as secondary sealing with the hose attached.

Differences between EMA1 and EMA3 types
a) sealing system (see previous section)
b) Test hose connection by plug-in coupling in EMA1
   Test hose connection by threaded connection in EMA3
c) Working pressures (see section advantages)

Working pressure
- EMA3 types up to 630 bar
- EMA1 types up to 400 bar
- Max. working pressure 630 bar for GMA, VKA and EMA … the recommended working pressure of fitting manufacturer has to be applied
- Joining under pressure up to 400 bar max.
- The allowable nominal pressures of each Test-Point are shown on the product pages.

Materials and Temperatures:
- Steel, zinc plated, Cr(VI)-free
- Stainless Steel, material 1.4571
- Seals:
  - FKM (Temperature range –20 to +200°C)
  - EPDM Ethylene Propylene (for Break Fluid) (Temperature range –40 to +150°C)
- Hose:
  - Polyamide (Temperature range: –35°C … 100°C max.)
  - Stainless Steel FKM only

Media:
- Suitable for hydraulic oils and other mineral oil based fluids (Please pay attention to the sealing materials used!)
- For use in conjunction with other liquid media please consult Parker

Approvals
DVGW for EMA3/8X1OR, EMA3/10X1OR, EMA3 1/8NPT, EMA 3 1/4 NPT

Perbunan = registered trademark of Bayer
Parker SensoControl® Test Points

EMA1 Test point fitting with pin-lock
Series 1

Male stud thread:  BSP, metric

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**Please add the suffixes below according to the material/surface required.**

---

<table>
<thead>
<tr>
<th>T1</th>
<th>D1</th>
<th>L1</th>
<th>L2</th>
<th>S1</th>
<th>S2</th>
<th>Fig.</th>
<th>Weight g/1 piece</th>
<th>Order code*</th>
<th>PN (bar)** CF</th>
<th>DF**</th>
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<tbody>
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**DF = Design Factor

1) Pressure shown = item deliverable

PN (bar) = PN (MPa)\(^{10}\)

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**Order code suffixes**

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<th>Example</th>
<th>Standard sealing material (no additional suffix needed)</th>
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### GMA1 Straight test point fitting with pin-lock Series 1

![Diagram of GMA1 fitting]

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<th>T1</th>
<th>D3</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>L5</th>
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<th>S2</th>
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<th>DF**</th>
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**DF = Design Factor
1) Pressure shown = item deliverable
2) L = light series; S = heavy series

PN (bar) = PN (MPa)<sup>10</sup>

Delivery without nut and ring. Information on ordering complete fittings or alternative sealing materials see page 17.

---

**Order code suffixes**

<table>
<thead>
<tr>
<th>Material</th>
<th>Suffix surface and material</th>
<th>Example</th>
<th>Standard sealing material (no additional suffix needed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel, zinc plated, Cr(VI)-free</td>
<td>CF</td>
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</tbody>
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*Please add the suffixes below according to the material/surface required.*
## VKA1 Test point fitting with pin lock for cones

**Series 1**

With 24° cone swivel nut connection

**Weight**

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<thead>
<tr>
<th>Series</th>
<th>D1</th>
<th>T1</th>
<th>L1</th>
<th>S1</th>
<th>S2</th>
<th>Fig.</th>
<th>Order code*</th>
<th>PN (bar)</th>
<th>CF</th>
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**DF** = Design Factor

³) Pressure shown = item deliverable

³) L = light series; *S = heavy series

\[
\text{PN (bar)} = \text{PN (MPa)}\times 10
\]

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*Please add the suffixes below according to the material/ surface required.*

**Order code suffixes**

<table>
<thead>
<tr>
<th>Material</th>
<th>Suffix surface and material</th>
<th>Example</th>
<th>Standard sealing material (no additional suffix needed)</th>
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</thead>
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<td>Steel, zinc plated, Cr(VI)-free</td>
<td>CF</td>
<td>VKA1/06LCF</td>
<td>NBR</td>
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Parker SensoControl® Test Points

**MAV-MA1** Test Point pressure gauge connector with pin-lock

**SMA1** Test Point high pressure hose with pin-lock

**Series 1**

<table>
<thead>
<tr>
<th>Female thread: BSP</th>
<th>Sealing: sealing ring DIN 16258</th>
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<table>
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<th>L1</th>
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<th>S1</th>
<th>S2</th>
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**Note hoses with small diameter:**
- Min. bending radius \( r = 20 \text{ mm} \)
- Working temperature \(-20 \text{ °C} \) up to \( 100 \text{ °C} \) (short time to \(+120 \text{ °C} \))
- Hoses are to be protected from fire, from sharp-corners and hot objects.

**Temperature factor of pressure rating:**
- up to \( 0 \text{ °C} \): 122 %
- for \( 30 \text{ °C} \): 110 %
- for \( 50 \text{ °C} \): 100 %
- for \( 80 \text{ °C} \): 86 %
- for \( 100 \text{ °C} \): 77 %

**Order code suffixes**

<table>
<thead>
<tr>
<th>Material</th>
<th>Suffix surface and material</th>
<th>Example</th>
<th>Standard sealing material (no additional suffix needed)</th>
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Note: Please add the suffixes below according to the material/surface required.

For measuring with liquid pressure media please note:
Bleed before connecting tube! By capillary action discharge of the pressure medium is prevented widely.
# Parker SensoControl® Test Points

## EMA3 Test Point with threaded connection M 16×2 Series 3

**Male thread:** BSP, metric

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<thead>
<tr>
<th>T1</th>
<th>D1</th>
<th>L1</th>
<th>L2</th>
<th>S1</th>
<th>S2</th>
<th>Fig.</th>
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**Order code suffixes**

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<th>Standard sealing material (no additional suffix needed)</th>
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**Notes:**

1) Pressure shown = item deliverable

2) **DF = Design Factor**

---

*Please add the suffixes below according to the material/surface required.*
GMA3 Straight Test Point with threaded connection M 16×2

Order code suffixes

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**Please add the suffixes below according to the material/surface required.**

**DF = Design Factor**

1) Pressure shown = item deliverable
2) L = light series; S = heavy series

Delivery without nut and ring.
Information on ordering complete fittings or alternative sealing materials see page 17.

<table>
<thead>
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<th>Series</th>
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<th>T1</th>
<th>D3</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
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<th>S1</th>
<th>S2</th>
<th>Weight g/1 piece</th>
<th>Order code*</th>
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**DF** = Design Factor

1) Pressure shown = item deliverable
2) L = light series; S = heavy series

PN (bar) = PN (MPa)/10

Delivery without nut and ring.
Information on ordering complete fittings or alternative sealing materials see page 17.

*Please add the suffixes below according to the material/surface required.*

**Q9 Catalogue 4100-8/UK**
Parker SensoControl® Test Points

**VKA3 Test Point for cones with threaded connection M 16×2**  
Series 3

With 24° cone swivel nut connection

![Diagram of VKA3 Test Point](image)

<table>
<thead>
<tr>
<th>Series</th>
<th>D1</th>
<th>T1</th>
<th>L1</th>
<th>S1</th>
<th>S2</th>
<th>Fig.</th>
<th>Weight g/1 piece</th>
<th>Order code*</th>
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**DF** = Design Factor

1) Pressure shown = item deliverable

2) L = light series; 3) S = heavy series

**Order code suffixes**

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<thead>
<tr>
<th>Material</th>
<th>Suffix surface and material</th>
<th>Example</th>
<th>Standard sealing material (no additional suffix needed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel, zinc plated, Cr(VI)-free</td>
<td>CF VKA3/06LCF</td>
<td>NBR</td>
<td></td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>71 VKA3/06L71</td>
<td>VIT</td>
<td></td>
</tr>
</tbody>
</table>

PN (bar) = PN (MPa)

---

*DF = Design Factor

1) Pressure shown = item deliverable

2) L = light series; 3) S = heavy series

**Order code suffixes**

<table>
<thead>
<tr>
<th>Material</th>
<th>Suffix surface and material</th>
<th>Example</th>
<th>Standard sealing material (no additional suffix needed)</th>
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<td>71 VKA3/06L71</td>
<td>VIT</td>
<td></td>
</tr>
</tbody>
</table>
**MAV...MA3**  Test point pressure gauge connector with threaded connection M 16\(\times\)2

**MAVMD...MA3**  Test point with threaded connection M 16\(\times\)2

**SMA3**  Test point high pressure hose with threaded connection M 16\(\times\)2 W Series 3

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### Female thread: BSP

Sealing: sealing ring DIN 16258*

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### Pressure gauge connector: MAV...MA3

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### Gauge-Direct-Connector: MAVMD...MA3

---

### Test hose: SMA3

---

### Order code suffixes

<table>
<thead>
<tr>
<th>Pressure gauge connector</th>
<th>Order code*</th>
<th>PN (bar)(^1)</th>
<th>DF**</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAV1/4MA3</td>
<td>MAV1/4MA3</td>
<td>630</td>
<td>4.0</td>
</tr>
<tr>
<td>MAV1/2MA3</td>
<td>MAV1/2MA3</td>
<td>630</td>
<td>4.0</td>
</tr>
<tr>
<td>MAVMD1/4MA3</td>
<td>MAVMD1/4MA3</td>
<td>630</td>
<td>4.0</td>
</tr>
<tr>
<td>MAVMD1/2MA3</td>
<td>MAVMD1/2MA3</td>
<td>630</td>
<td>4.0</td>
</tr>
<tr>
<td>SMA3-200</td>
<td>SMA3-200</td>
<td>630</td>
<td>2.5</td>
</tr>
<tr>
<td>SMA3-300</td>
<td>SMA3-300</td>
<td>630</td>
<td>2.5</td>
</tr>
<tr>
<td>SMA3-400</td>
<td>SMA3-400</td>
<td>630</td>
<td>2.5</td>
</tr>
<tr>
<td>SMA3-630</td>
<td>SMA3-630</td>
<td>630</td>
<td>2.5</td>
</tr>
<tr>
<td>SMA3-800</td>
<td>SMA3-800</td>
<td>630</td>
<td>2.5</td>
</tr>
<tr>
<td>SMA3-1000</td>
<td>SMA3-1000</td>
<td>630</td>
<td>2.5</td>
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<tr>
<td>SMA3-1500</td>
<td>SMA3-1500</td>
<td>630</td>
<td>2.5</td>
</tr>
<tr>
<td>SMA3-2000</td>
<td>SMA3-2000</td>
<td>630</td>
<td>2.5</td>
</tr>
<tr>
<td>SMA3-2500</td>
<td>SMA3-2500</td>
<td>630</td>
<td>2.5</td>
</tr>
<tr>
<td>SMA3-3200</td>
<td>SMA3-3200</td>
<td>630</td>
<td>2.5</td>
</tr>
<tr>
<td>SMA3-4000</td>
<td>SMA3-4000</td>
<td>630</td>
<td>2.5</td>
</tr>
</tbody>
</table>

**DF = Design Factor**

\(^1\) Pressure shown = item deliverable

\[ \frac{\text{PN (bar)}}{10} = \text{PN (MPa)} \]

*Please add the suffixes below according to the material/surface required.

---

### Steel, zinc plated, Cr(VI)-free

<table>
<thead>
<tr>
<th>Material</th>
<th>Suffix surface and material</th>
<th>Example</th>
<th>Standard sealing material (no additional suffix needed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF</td>
<td>NBR</td>
<td>MAV1/4MA3CF</td>
<td>NBR</td>
</tr>
</tbody>
</table>

---

### Note hoses with small diameter:

- Min. bending radius \(r = 20\) mm
- Working temperature \(-20\) °C up to \(100\) °C (short time to \(+120\) °C)
- Hoses are to be protected from fire, from sharp-corners and hot objects.

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### Temperature factor of pressure rating:

- For measuring with liquid pressure media please note:
  - Bleed before connecting tube! By capillary action discharge of the pressure medium is prevented widely.

  Temperature factor of pressure rating:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to (0) °C</td>
<td>122%</td>
</tr>
<tr>
<td>(30) °C</td>
<td>110%</td>
</tr>
<tr>
<td>(50) °C</td>
<td>100%</td>
</tr>
<tr>
<td>(80) °C</td>
<td>86%</td>
</tr>
<tr>
<td>(100) °C</td>
<td>77%</td>
</tr>
</tbody>
</table>
The ServiceJunior makes possible the measurement and display of pressures with one instrument. Measured values are shown with high precision on a 4-digit display. Pressure peaks are securely captured at a scanning rate of 10 ms.

- Digital pressure measurement and display
- Back-lit measured value display
- Accuracy ± 0.5% FS
- Pressure peaks captured by displaying MIN/MAX reading
- Graphic display with bar graph (trailing indicator), peak & hold function

**ServiceJunior Kit**
- Delivery in storage-case
- Incl. test point-adapters and test hoses

Catalogue 4054/UK

Utilising the ServiceJunior wireless from Parker's SensoControl family of products allows you to comfortably record the pressure values taken from one or several measurement points on your machine or installation. Stored measurement data is transmitted to a PC across distances of up to 50 meters.

- Measured data memory for storing pressure sequences
- Network operations: monitor several measurement points
- Read-out data from measured data memory to the PC via a radio interface
- Set and evaluate measurement data using PC software “JuniorWin”

Catalogue 4054/UK
SensoControl®

Serviceman

The Serviceman has 2 inputs for sensors. This enables a differential pressure measurement by pressing only one key. Fast comparisons of actual and set values are done very easily.

- Easily operation
- Prevention of measuring errors due to automatic sensor recognition
- Two-line display
- Pressure peak measuring in 2 msec.

Serviceman Kit

- Delivery in storage-case
- Incl. test point-adapters and test hoses
- Attachments and sensors to measure pressure/temperature, flow

Catalogue 4054/UK

---

SensoControl®

The Parker ServiceMaster “Easy”

Measurement and display of up to four measured values simultaneously. Proportional technology differential values, addition, performance and signals are very easily analysed.

- Rapid fault diagnosis = high quality maintenance
- Pressure spike measurement 1 msec
- Measured value storage to record pressure sequences with various storage functions (auto trigger, start-stop, etc)
- USB PC interface
- Setting and evaluation of measurement data with “SensoWin” software.

Bulletin 4057/UK
The ServiceMaster is a multi-channel hand meter for the simultaneous measuring of important hydraulic values. All hydraulic parameters such as pressure, differential pressure, flow and hydraulic power can be measured, displayed, stored and processed.

- Fast malfunction diagnosis = high servicing quality
- Measured data memory for storing pressure sequences
- Set and evaluate measurement data using PC software “JuniorWin”

ServiceMaster Kit:
- Delivery in storage-case
- Incl. attachments
- test point-adapters and test hoses

Catalogue 4054/UK
Pressure sensor SCPT

- Pressure measuring range up to 1000 bar
- Accuracy ±0.25% FS

Catalogue 4054/UK

Hydraulic tester SCLV-PTQ

- Test of pressure and flow (pump-test)
- Integrated load-limiting device

Catalogue 4054/UK

Temperature sensor SCT

- Oil temperatures up to 125 °C
- Compatible with flow measurement turbine SCFT

Catalogue 4054/UK

Turbine flow meter type SCFT

- Pressure measuring range up to 750 l/min.
- Accuracy: 1% from measured value
- Pressure range up to 480 bar

Catalogue 4054/UK

Tachometer SCRPM

- Measurement range up to 10,000 RPM
- Accuracy ±0.5% FS
- Easy and fast measurement

Catalogue 4054/UK
The Controllers are used in control, regulating and monitoring systems when switching or analogue signals, or a display, are required. The Controllers can replace:

- mechanical switches
- mechanical displays (manometers, thermometers, sight glasses)
- sensors

and combine all the functions of the above-mentioned components in one instrument.

- large display
- freely settable
- rugged metal design
- compact
- long-term stability
- reliable
- interference-free

Catalogue 4083/UK

Simple operation, comprehensive functionality and long working life are the major features of the electronic SCPSD PressureController.

Features:

- Bar/PSI/MPa
- compact design
- rotatable
- rugged housing (IP 67)
- simple operation
- 2 switching outputs
- 4 switching points
- settable analogue output
- time delay (damping)
- hysteresis/window function
- password

If pressure is to be displayed, or the requirement is for rapid switching or analogue signals, which can be set simply and without additional adjustments, then the SCPSD is the ideal solution.

Catalogue 4083/UK
Simple operation and comprehensive functionality are the major features of the electronic SCTSD Temperature Controller.

Features:
- °C and °F
- compact design
- rotatable
- rugged housing (IP 67)
- simple operation
- 2 switching outputs
- 4 switching points
- settable analogue output
- delay times (damping)
- hysteresis/window function
- password

If temperature is to be displayed, or the requirement is for temperature-dependent switching or analogue signals, which can be set simply and without additional adjustments, then the SCTSD is the ideal solution.

Catalogue 4083/UK

Simple operation and comprehensive functionality are the major features of the electronic SCLSD Level Controller.

- level display in mm/inch/%
- compact design
- rotatable
- rugged housing (IP 67)
- settable via menu
- high & low display
- switching output
- analogue output
- proven float measuring system
- simple operation
- flexible installation
- hysteresis/window function

The Level Controller is very suitable for monitoring tank levels. With its menu-controlled setting of level switching points, a very wide range of applications can be conveniently carried out. If the percentage display is selected, the fullness level is shown to the operator in a consistent manner, independently of the tank shape.

Catalogue 4083/UK
Simple operation and comprehensive functionality are the major features of the electronic SCLTSD LevelTempController.

Features:
- temperature and level
- compact design
- rotatable
- rugged housing (IP67)
- simple operation
- menu-controlled setting
- probe
- locating bore
- switching output
- analogue output
- hysteresis/window function
- password

With the LevelTempController it is possible to set and display temperature and level separately on a common platform. It is precisely in the field of tank monitoring that the integration of level and temperature shows its unique potential.

Catalogue 4083/UK

The OilTankController offers standardised connection points for an air filter and a filler coupling, which are additional to the LevelTempController. It is precisely in the field of tank monitoring for series production that the integration of level and temperature, in combination with the air filter and filler coupling, shows its unique potential. Only one location bore is required for all 4 functions.

- proven measuring system
- level and temperature display
- mm/inch/% displays
- high and low display
- only one bore
- continuous level measurement
- connections:
  - filler coupling
  - air filter
  - under-pressure
- no surge tube needed

Catalogue 4083/UK
The SCP Mini pressure sensor was designed for industrial application needs and is used in control, regulating and monitoring systems, when the requirement is for rapid pressure-dependent analogue signals. The SCP Mini sensor is noted for its compact design, high linearity and excellent interference resistance.

- stainless steel cell
- small size
- high burst pressure
- resistant to pressure peaks
- shock and vibration resistant
- wide media compatibility
- high linearity
- long-term stability

Catalogue 4083/UK

The SCP-EX pressure sensor was designed for the requirements of applications where there is a risk of explosion (II 2G EEx ia IIC T4) and is used in control, regulating and monitoring systems when there is a requirement for pressure-dependent analogue signals.

- rugged
- long-term stability
- reliable
- stainless steel
- EEx ia

Catalogue 4083/UK
**Parker SensoControl® Automation**

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**SensoControl®**

**Pressur sensor SCP-Mobil**

The SCP Mobil was especially developed for mobile hydraulic applications and can be modified to meet specific customer requirements.

- special electrical connections
- special output signals
- special protection measures
- measuring range from –1 … +1 bar to 0 … 4,000 bar

**Catalogue 4083/UK**

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**CanBus SCP**

**Pressure/Temperature Sensor with CANopen technology**

**Technical data:**
- Pressure range (measuring range) –1…16 / 0…60/150/400/600/1000 bar
- Temperature range (measuring range) –25°C … +105°C (± 2,0% FS max.)
- Accuracy ± 0,25% FS (typ.)
- Response time 1 ms
- Housing stainless steel 1.4404
- Sealing FKM
- Connections electrical M12 5-pin hydraulic ½˝ BSP
- CANopen DS 301 v 4.1
- Type 2.0 A
- Profile DS 404 v 1.2
- Functions LSS (DSS 305 v 2.0)

**Advantages**
- Combined pressure and temperature measurement
- Digital measured value capture and transmission
- Error monitoring/self-diagnosis
- Heartbeat function/SYNC

**Applications**
- Hydraulics/pneumatics
- Automation technology
- Paper machinery/automotive/mobile hydraulics

**Leaflet 4059/UK**

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**Flexible, innovative and reliable**

The new pressure/temperature sensor in the SCPT series offers flexible application possibilities in automation technology. Besides the pressure and temperature measurement combination, CANopen technology offers the designer cost-effective and reliable measuring technology.
SensoControl®

Temperature sensors SCT

Ample connections, a flexible display and plenty of outputs are the major features of the SCE-020 display instrument.

Features:
- Inputs: Current, voltage, frequency
- units freely selectable
- adjustable display range
- outputs: switching output, analogue output
- serial interface: RS 232

If various measurement values are required to be shown simply and flexibly, then it is the SCE-020 display instrument that should be used.

Catalogue 4083/UK

SensoControl®

Built-in instrument SCE-020

Compact design and high pressure resistance are the major features of the electronic Temperature Sensors.

Features:
- pressure resistant to 630 bar
- compact design
- stainless steel housing
- simple installation
- \(-50^\circ\text{C}\) to \(250^\circ\text{C}\)
- 0/4 ... 20 mA

The SCT excels when temperature is being measured at higher pressures and compact size is required.

Catalogue 4083/UK