# 8 Pressure measurement SCP analogue

## Pressure meter SCP analogue

- Low height
- Robust stainless steel design
- Response times of 1 ms
- Capturing of pressure peaks
- Accuracy ±0.5 %




Fast response times guarantee the safe capture of pressure peaks in hydraulic systems. The robust stainless steel design allows a variety of applications, for example cooling water or pneumatics.

All pressure sensors are delivered with a diagnosis adapter (M16x2) installed. Fast and safe connection to the hydraulic system is ensured. Installation times are reduced.

| Pressure measurements | |
|---|---|
| -1... 015 bar | Pneumatics/low pressure |
| 0 ... 060 bar | Medium pressure |
| 0 ... 150 bar | Medium pressure |
| 0 ... 400 bar | Operating pressure hydraulics |
| 0 ... 600 bar | High pressure |
| 0 ... 1.000 bar | High pressure peaks |





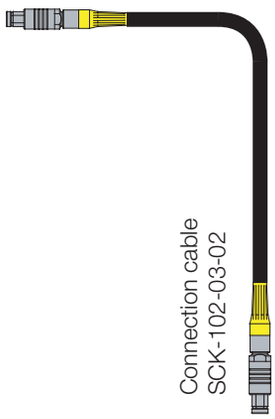
Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

# 8 Pressure measurement SCP analogue

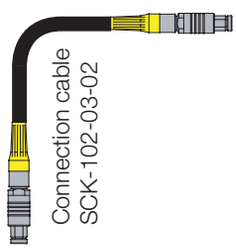
## Function specifications



The Parker Service Master *Plus*
SCM-500-01-xx or
The Parker Service Master *Easy*
SCM-330/340



Connection cable
SCK-102-03-02



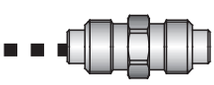
Connection cable
SCK-102-03-02



Parker Serviceman
Plus SCM-155-0-02



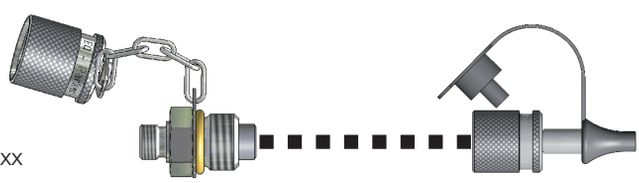
Pressure sensor
SCP-xxx-74-02



Adapter SCA-EMA-3/3



Test hose
SMA3-xxx



Adapter EMA-3/xxx

**SCP pressure measurement**
There is a selection of different measuring ranges for measuring pressure. Sensors can be used for pneumatic applications and also for measuring pressure peaks of up to 1,000 bar.

**Diagnostic adapter**
All pressure sensors are provided with a SCA-1/4-EMA-3 diagnostic adapter installed.
The pressure sensors can be adapted to all standard measuring connections.
They are ideal for quick and flexible diagnostic in hydraulic applications.

# 8 Pressure measurement SCP analogue

## Technical data

| Type | SCP-015 | SCP-060 | SCP-150 | SCP-400 | SCP-600 | SCP-1000 |
|---|---|---|---|---|---|---|
| Measuring range (bar) | -1…015 | 0…060 | 0...150 | 0...400 | 0...600 | 0...1,000* |
| Overload pressure Pmax (bar) | 40 | 200 | 500 | 800 | 1,000 | 1,000 |
| Burst pressure (bar) | 60 | 1,000 | 2,000 | 2,000 | 2,000 | 2,000 |

*$P_N$ of up to 630 bar, for pressure peaks of up to 1,000 bar

| Accuracy | |
|---|---|
| Accuracy FS | ± 0.5 % + 0.2 %/year |
| Response time | 1 ms |
| **Connections** | |
| Electrical connection | 5-pin connector |
| Process connection | 1/4“ BSPP |
| **Material** | |
| Housing | Stainless steel |
| Seal | FKM |
| Weight | approx. 200 g |
| Type of protection | IP54 EN 60529 |

| Ambient conditions | |
|---|---|
| Ambient temperature (°C) | -25…+85 |
| Storage temperature (°C) | -20...+85 |
| Media temperature (°C) | -25...+105 |
| Reliability cycles | 100 million |
| Shock load | 50 g/11 ms IEC 60068-2-27 |
| Vibration resistance | 20 g as per IEC 60068-2-6 |

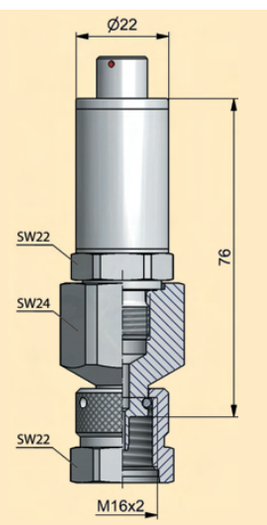
## Supply range and accessories

| SCP pressure sensor 1/4" BSPP male incl. adapter SCA-1/4-EMA-3 | Order code |
|---|---|
| -1...015 bar/0...060 bar/0...150 bar/ 0...400 bar/0...600 bar/0...1,000 bar | SCP-xxx-74-02 |

| SCP pressure sensor 1/4" BSPP male incl. adapter SCA-1/4-PQC | Order code |
|---|---|
| -1...015 bar/0...060 bar/0...150 bar/ 0...400 bar/0...600 bar | SCP-xxx-74-02-PQC |

| SCK analogue connection cable | Order code |
|---|---|
| 3 m (male 5 pin - male 5 pin) | SCK-102-03-02 |
| 5-m extension cable (male 5 pin - female 5 pin) | SCK-102-05-12 |

| SCP pressure sensor with calibration certificate as per ISO 9001 | Order code |
|---|---|
| SCP pressure sensor incl. adapter SCA-1/4-EMA-3 | K-SCP-xxx-74-02 |
| SCP pressure sensor incl. adapter SCA-1/4-PQC | K-SCP-xxx-74-02-PQC |



SCP-xxx-74-02

Sensors

# 9 Pressure measurement SCP CAN

## Pressure measurement SCP CAN

- Low height
- Robust stainless steel design
- Response times of 1 ms
- Capturing of pressure peaks
- Accuracy ±0.5 %
- Quick-plug-screw connection SPEEDCON®
- Sensor identification LED
- Suitable for long cables



All the advantages of the analogue SCP sensors are combined with state-of-the-art CAN bus technology. Simple wiring with the SPEEDCON® quick-plug-screw connection. Plug-&-Play functionality cuts configuration effort.

All pressure sensors are delivered with a diagnosis adapter (M16x2) installed. Fast and safe connection to the hydraulic system is ensured. Installation times are reduced.

| Pressure measurement | |
|---|---|
| -1 ... 016 bar | Pneumatics/ low pressure |
| 0 ... 060 bar | Medium pressure |
| 0 ... 160 bar | Medium pressure |
| 0 ... 400 bar | Operating pressure hydraulics |
| 0 ... 600 bar | High pressure |
| 0 ... 1,000 bar | High pressure peaks |



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# 9 Pressure measurement SCP CAN

## Function specifications



The Parker Service Master *Plus*
SCM-500-xx-xx

Connection cable
SCK-401-02-4F-4M

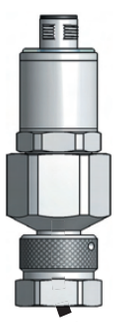
Connection cable
SCK-401-02-4F-4M



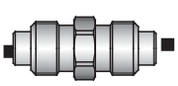
Parker Serviceman
Plus SCM-155-2-05



Terminating
resistor
SCK-401-R



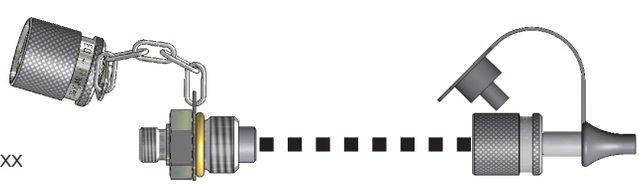
Pressure sensor
SCP-xxx-C4-05



Adapter SCA-EMA-3/3



Test hose
SMA3-xxx



Adapter EMA-3/xxx

**Pressure meter SCP**
There is a selection of different measuring ranges for measuring pressure. Sensors are available for pneumatic applications and also for measuring pressure peaks up to 1,000 bar.

**Diagnostic adapter**
All pressure sensors are delivered with an SCA-1/4-EMA-3 diagnostic adapter installed.
The pressure sensors can be adapted to all standard measuring connections. They are ideal for quick and flexible diagnostic in hydraulic applications.





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# 9 Pressure measurement SCP CAN

## Technical data

| Type | SCP-016 | SCP-060 | SCP-160 | SCP-400 | SCP-600 | SCP-1000 |
|---|---|---|---|---|---|---|
| Measuring range (bar) | -1…016 | 0…060 | 0...160 | 0...400 | 0...600 | 0...1,000* |
| Overload pressure Pmax (bar) | 32 | 120 | 320 | 800 | 1,000 | 1,000 |
| Burst pressure (bar) | 160 | 550 | 1,000 | 1,700 | 2,000 | 2,000 |

*PN of up to 630 bar, for pressure peaks of up to 1,000 bar

| Accuracy | |
|---|---|
| Accuracy FS | ± 0.5 % + 0.2 %/year |
| Response time | 1 ms |
| **Connections** | |
| Electrical connection | M12, 5 pin |
| Process connection | 1/4“ BSPP |
| **Material** | |
| Housing | Stainless steel |
| Seal | FKM |
| Weight | approx. 195 g |
| Type of protection | IP67 EN 60529 |

| Ambient conditions | |
|---|---|
| Ambient temperature (°C) | -25…+85 |
| Storage temperature (°C) | -25...+85 |
| Media temperature (°C) | -25...+105 |
| Reliability cycles | 100 million |
| Shock load | 50 g/11 ms IEC 60068-2-27 |
| Vibration resistance | 20 g IEC 60068-2-6 |

## Supply range and accessories

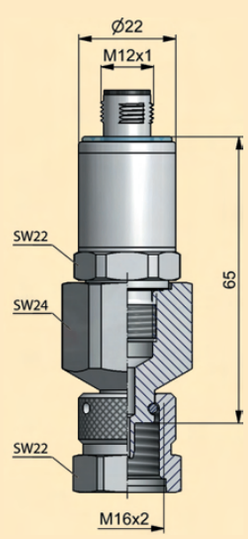
| SCP pressure sensor CAN 1/4" BSPP male incl. adapter SCA-1/4-EMA-3 | Order code |
|---|---|
| -1...016 bar/0...060 bar/0...160 bar/0...400 bar/ 0...600 bar/0...1,000 bar | SCP-xxx-C4-05 |

| SCP pressure sensor CAN 1/4" BSPP male incl. adapter SCA-1/4-PQC | Order code |
|---|---|
| -1...016 bar/0...060 bar/0...160 bar/0...400 bar/0...600 bar | SCP-xxx-C4-05-PQC |

| SCK connection cables CAN* | Order code |
|---|---|
| 0.5 m (male 5 pin - female 5 pin) | SCK-401-0.5-4F-4M |
| 2 m (male 5 pin - female 5 pin) | SCK-401-02-4F-4M |
| 5 m (male 5 pin - female 5 pin) | SCK-401-05-4F-4M |
| 10 m (male 5 pin - female 5 pin) | SCK-401-10-4F-4M |
| 20 m (male 5 pin - female 5 pin) | SCK-401-20-4F-4M |
| CAN Y-junction | SCK-401-Y |
| CAN Y-junction incl. 0.3-m cable | SCK-401-0.3-Y |
| CAN T-junction | SCK-401-T |
| Terminating resistor** CAN (female 5 pin - female 5 pin) | SCK-401-R |

* Other lengths available on request
** Each CAN network requires a terminating resistor.

| SCP pressure sensor CAN with calibration certificate as per ISO 9001 | Order code |
|---|---|
| SCP pressure sensor CAN incl. adapter SCA-1/4-EMA-3 | K-SCP-xxx-C4-05 |
| SCP pressure sensor CAN incl. adapter SCA-1/4-PQC | K-SCP-xxx-C4-05-PQC |




SCP-xxx-C4-05





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