

3 The Parker Service Master CONNECT

The Parker Service Master CONNECT

- Up to 100 channels enable complex measuring tasks
- The illuminated 7" touch display and the well-designed user interface make use intuitive
- The additional tactile keypad enables safe operation even under adverse conditions
- The right expansion level for every application thanks to individually exchangeable measuring modules
- SensoWin® software included in the supply package. This enables you to analyse measurements and create test reports easily.



The **Parker Service Master CONNECT** is a powerful diagnostic measuring device for mobile, stationary hydraulic applications, e.g. in the area of service, commissioning and development. It safely and accurately records values such as pressure, temperature, flow and frequency.

Thanks to the robust IP65 design, it offers comprehensive protection against moisture and dirt and is resistant to impacts. Therefore, the device is very suitable for use in harsh environments.

The 7" large, illuminated, non-reflective display enables smooth, intuitive operation. The clearly structured user interface which enables fast and secure measurement setting configuration makes the device easy to use.

The modular measuring device hardware and software enables customised set-up according to individual measuring and analysis needs. It measures and displays up to 100 channels and is therefore also suitable for very complex diagnostic tasks. The **Parker ServiceMaster CONNECT** is a state-of-the-art device that is equipped with various interfaces such as Parker CAN, CANopen, SAEJ-1939, analogue, digital, frequency, Wifi and Bluetooth LE.



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Functional description

Illuminated and non-reflective colour display for good readability in all situations, 7 inches large for clear overview with comprehensive information

High protection against moisture and dirt, protection class IP 65

Integrated holder for carrying strap

Additional large tactile keyboard for safe operation even in difficult conditions

Robust, oil-resistant housing protection for use in harsh environments and for absorbing shocks

Suitable for use with gloves, robust 3 mm glass, resolution 800 x 480 pixels

Intuitive operation thanks to clear icons and function-related buttons and apps

Power supply unit with universal country adapters, strong battery power and fast charging times, energy saving options for long operating times

Analogue input module for connecting Parker sensors with sensor recognition

Analogue third-party sensors - also with high-speed functionality

CAN module for monitoring CAN systems or for connecting external CAN sensors

2 x CAN bus networks with up to 24 channels each

2 frequency inputs or D-IN/D-OUT

SIM card slot

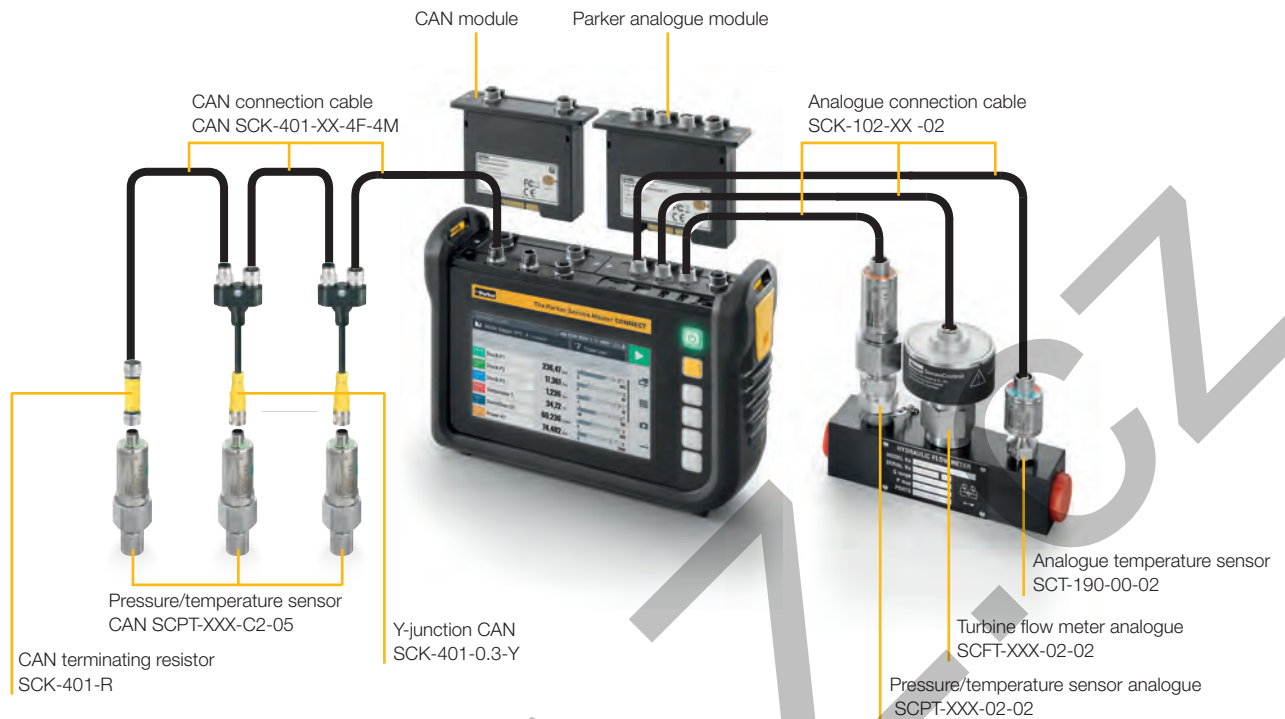
LAN interface for remote monitoring, transmission of measured values or remote control

USB host interface for connecting USB mass storage devices

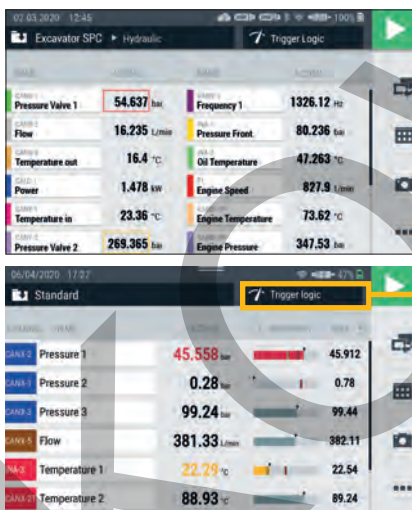
USB device interface for connecting to PC, laptop etc.



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- Up to 12 channels in one display
- Colour assignment of the individual channels
- Display can be changed between ACT, MIN and MAX values



- Numerical representation of 6 channels with bar graph
- Display of measuring range, warning and alarm values as well as MIN and MAX values



- Variety of measurement options for a wide variety of applications

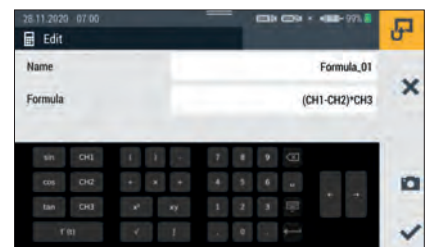
- Up to 8 freely selectable channels simultaneously in one curve display
- Choice between ACT and MIN/MAX value display
- Free scalability
- Up to two cursors with measured value and delta display can be displayed for analysis purposes



Channel	Unit	Value	Unit	Value
Pressure 1	0 - 60 bar	0 - 60 bar	OK	
Pressure 2	0 - 600 bar	0 - 600 bar	OK	
Pressure 3	0 - 150 bar	0 - 150 bar	OK	
Delta Pressure	-60 - 150 bar	-60 - 150 bar	OK	
Flow	0 - 600 L/min	0 - 600 L/min	OK	
Temperature 1	-50 - 250 °C	-50 - 250 °C	OK	

- Recurring measurement tasks can simply be saved as a template
- When selecting the template, the pre-set measurement set-up is also compared
- Using a template ensures the comparability of the measurements
- An existing template can be duplicated and modified as required

- Up to 4 calculation channels can be created
- In addition to the predefined standard functions such as delta values or hydraulic power, free formulas can also be entered



Measurements	Templates	Media
Drawing SCTP-XXX-C2-05-EMA	ping	20.09.2019 110 KB
SCJIN	pdf	20.09.2019 309 KB
USERMANUAL	pdf	20.09.2019 2 MB
SCREENSHOT_001	jpg	20.09.2019 1 MB
SCREENSHOT_002	jpg	20.09.2019 285 KB

- In addition to measurement files and templates, images, reports and other documentation files can also be managed

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Technical data

The Parker Service Master CONNECT	
Inputs/outputs	
CAN sensor inputs	2 CAN bus networks with 24 Parker CAN bus channels each. Alternatively on CAN Y up to 5 third-party CANopen sensors. Baud rate adjustable for external CAN. 24 VDC power supply/ max. 250 mA. Mixed operation of Parker CAN and external CAN is not possible within a CAN bus line. Internal terminating resistor 120 ohms. Supports CAN 2.0 A/CAN 2.0 B.
Sample rate	1 ms = 1,000 measured values/s
Plug-in Connection	M12x1, 5 pin with SPEEDCON®, Built-in connector
D-IN/OUT F1/2	Double-assigned input that can be used either as DIGITAL-IN and DIGITAL-OUT, or by switching, two frequency inputs are made available. Also possible as direction of rotation detection.
Connection	M12x1 SPEEDCON® female. (5-pin)
Input	Galvanically isolated
Supply	24 V _{DC} 80 mA
Input signals	Frequency (0 Hz ... 20 KHz)
Level/threshold	Active low: 0-1.4 V, active high: 3-30 V
Accuracy	≤± 0.1%
Input module slots	Flexible assembly with up to 2 modules
Touch display	7", 800 x 480 pixels, brightness: 450 cd. Use with gloves possible.
Arithmetic channels	
Number	4
Functions	/, *, +, -, f'(t), Integral, sin, cos, tan, x2, SQRT, xy
Maximum number of offsetting channels / Calc channel	3
Interfaces	
USB device	Data transmission between device and PC
USB host 1	USB 2.0, connection of external storage media
USB host 2	USB 2.0, connection of external storage media
Memory	12 GB
LAN	Connection of network cables
SIM card	MINI-SIM insertion
Wireless communication	SMC-600-00: WLAN, Bluetooth LE (Europe)
Ambient conditions	
Ambient temperature	-10...+50 °C
Storage temperature	-20...+60 °C
Rel. Humidity	< 80 %
Environmental impact test	Drop test 1m (EN 60721-3-7)
Vibrations	EN 60721-3-7, 7M3
Protection class	IP 65 (EN/IEC 60529:2014)
External power supply	110/240 V _{AC} - 24 VDC/3.5 A car charging cable as an accessory (12/24 V _{DC})
Connection	3-pin
Rechargeable battery	
Lithium-ion pack, 14.4 V/3350 mAh	
Material	
Housing	ABS/PC (thermoplastic resin)
Housing protective cover	TPE (thermoplastic elastomer)
Flammability Class	UE94VO
Dimensions (W x H x D)	282 x 195 x 85 mm
Weight	1880 g (without input module)
VESA connection	100 x 100 mm / M4 metric
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Input module SCMI-600-01 Parker Analogue	
Inputs with sensor recognition	3 sensor inputs (up to 6 analogue measurement channels) With sensor recognition (p/T/Q/n) for SensoControl® diagnostic sensors Push-in connection: 5-pin, push-pull, combination panel plug/socket Sample rate: 1 ms = 1,000 measured values/sec.
Inputs for external sensors	2 sensor inputs (analogue) For measuring current and voltage Sample rate: 1 ms = 1,000 measured values/sec. Voltage measuring range: -10...+10 V _{DC} Current measuring range: 0/4...20 mA Supply ext. Sensors: +24...+24 V _{DC} /max. 100 mA Push-in connection: M12x1, 5 pin socket FAST-MODE sample rate: 0.1 ms = 10,000 measured values/s
Supply	24 V _{DC} 100 mA
Input signal range	-10...+10 V 0/4...20 mA
Operating temperature range	-10 °C...+50 °C
Storage temperature range	-20 °C...+60 °C
Weight	152 g
Accuracy	±0.1 % FS
Input module SCMI-600-02 CAN	2x M12x1.5 pin connector inputs for connection to CAN systems such as CANopen, CAN generic and SAE-J1939
Connections	2 x M12 5-pin female
Designation	CAN1xx, CAN2xx, each galvanically isolated
Channels CAN1xx	24
Channels CAN2xx	24
Standards	CAN 2.0 A, CAN 2.0 B,
Protocol support	CANopen, SAEJ1939 and CAN generic, mixed operation of several CAN protocols possible
Terminating resistor	Can be switched on/off
Signal connection supply	Passive, no external supply
Operating temperature range	-10 °C...+50 °C
Storage temperature range	-20 °C...+60 °C
Weight	127 g
Input module SCMI-600-03 Parker Analogue iso	Like SCMI-600-01 Parker Analogue, but module galvanically isolated from The Parker Service Master CONNECT

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Order codes and accessories

The Service Master CONNECT (without input modules)

Included in the supply package:

- Power supply with country adapters: EUR/UK/US/AUS
- USB-2.0 cable (2 m)
- PC software

The Service Master CONNECT Kit (without input modules)

Included in the supply package:

- Device in trolley case SCC-600 incl. Power supply with country adapters
- 1 x Carrying strap SC-ACC-02
- 2 x Connection cable CAN SCK-401-05-4F-4M
- 2 x Terminating resistor SCK-401-R
- 2 x Adapter SCA-EMA-3/3
- 2 x Measuring hose SMA3-1500CF

The Service Master CONNECT SET with input modules (without case)

Included in the supply package:

- The Service Master Connect
- Power supply unit with country adapters: EUR/UK/US/AUS
- USB 2.0 cable (2 m)
- PC software
- Input modules according to order matrix

With ISO 9000 calibration certificate

Equipment

with WLAN and Bluetooth LE (Approved for Europe only) / no LTE

without WLAN and without Bluetooth

Input module 1

Input module Parker analogue SCMI-600-01

Input module CAN SCMI-600-02

Input module Parker analogue iso (galvanically isolated) SCMI-600-03

Input module 2

without

Input module Parker analogue SCMI-600-01

Input module CAN SCMI-600-02

Input module Parker analogue iso (galvanically isolated) SCMI-600-03

Input module (single)

Input Module Parker Analog

Input module CAN

Input module Parker Analog iso (galvanically isolated)

Input module (single) with calibration certificate according to ISO 9001

Input Module Parker Analog

Input module Parker Analog ISO (galvanically isolated)

Accessories

Car charging cable 24 VDC

Car charging cable 12 VDC

M12x1 plug for external sensor inputs

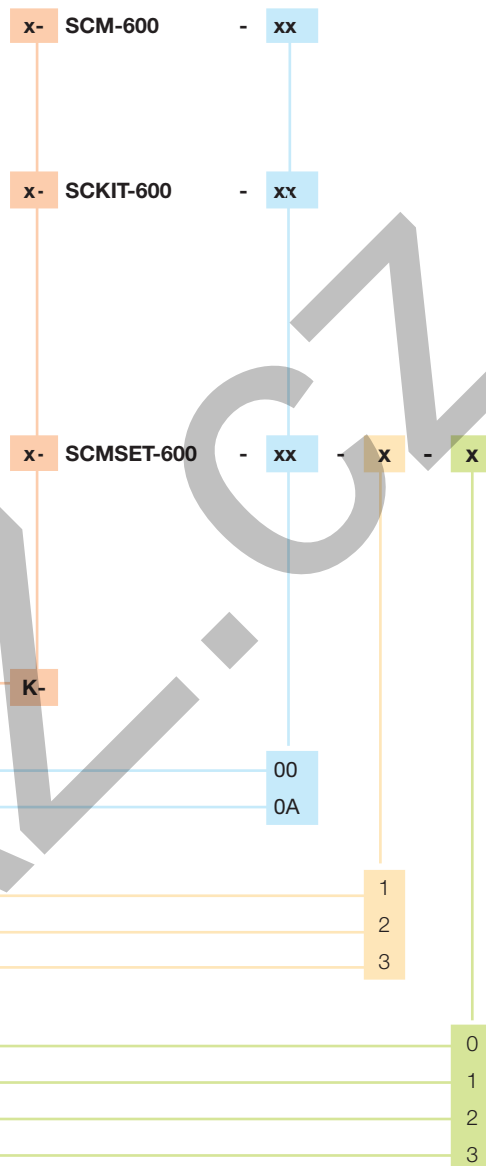
SMC carrying strap

LAN cable

Power supply including country adapter (EUR/UK/US/AUS)

Case with trolley function

USB cable



Input module (single)	
Input Module Parker Analog	SCMI-600-01
Input module CAN	SCMI-600-02
Input module Parker Analog iso (galvanically isolated)	SCMI-600-03
Input module (single) with calibration certificate according to ISO 9001	
Input Module Parker Analog	K-SCMI-600-01
Input module Parker Analog ISO (galvanically isolated)	K-SCMI-600-03
Accessories	Order designation
Car charging cable 24 VDC	SCK-318-05-21
Car charging cable 12 VDC	SCNA-SMC-CAR
M12x1 plug for external sensor inputs	SCK-401-4M
SMC carrying strap	SC-ACC-02
LAN cable	SCK-318-02-37
Power supply including country adapter (EUR/UK/US/AUS)	SCSN-470
Case with trolley function	SCC-600
USB cable	SCK-315-02-35