



Parker The Parker Service Master CONNECT

24.04.2020 10:45 USB1 USB2 Bluetooth 20 100% Müller Bagger SPC ► Hydraulik Trigger Logic

CHANNEL	NAME	ACTUAL	< BARGRAPH	MAX >
CAN X 1	Druck P1	236,47 bar	0 400	
CAN X 2	Druck P2	17,361 bar	0 60	
CAN X 3	Druck P3	1,236 bar	-1	
CAN Y 1	Temperatur T	34,72 °C	-50 150	
CAN Y 2	Durchfluss Q1	60,236 l/min	0 300	
CALC 1	Power P1	74,482 kW	0 3000	

The Parker Service Master CONNECT

Intuitive operation. Modular system.
Customized solutions. Optimal connections.



ENGINEERING YOUR SUCCESS.

The Parker Service Master CONNECT –

Modular system due to individual interchangeable measuring modules

Variable measuring inputs:
Parker analog and CAN sensors with sensor recognition, analog sensors, SAEJ-1939, CANopen and frequency

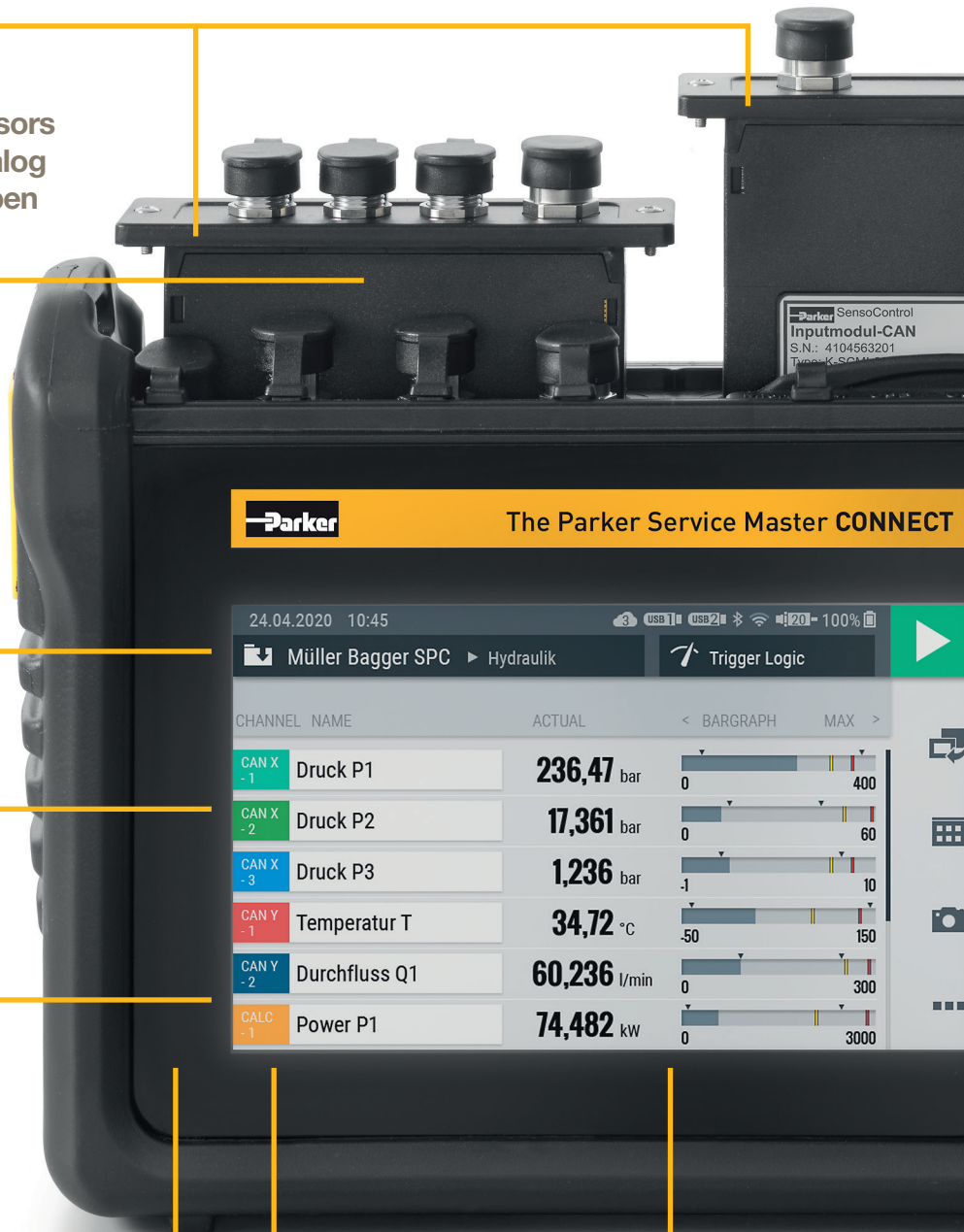
Automatic recording and saving of measurement data and immediate analyzing with the tried-and-tested SensoWin® software on a PC

Measure and display up to 100 channels

Intuitive operation using the colored 7" touch display

Variety of measuring methods, i. a:

- Start/Stop
- Data logger with ring memory
- Point measurement
- Trigger
- Trigger logic
- Fast measurements



Intuitive user interface, can be extended by customer-specific software applications

Measured value representations:

- Numerical
- Bar graph
- Pointer
- Curve

Advantages that connect.



Integrated web server
for remote control
applications

Pressure, temperature,
flow, rpm and frequency,
etc. – everything is
measured, saved,
monitored and analyzed

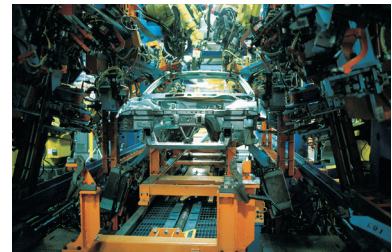
Large internal data logger

Push button for
screen shots

Varied connections:

- WLAN
- Bluetooth LE
- LTE*

* in preparation



**Universally applicable
for mobile and stationary
applications.**

A strong diagnosis measuring device for many applications due to the modularly structured system in the hardware and software.

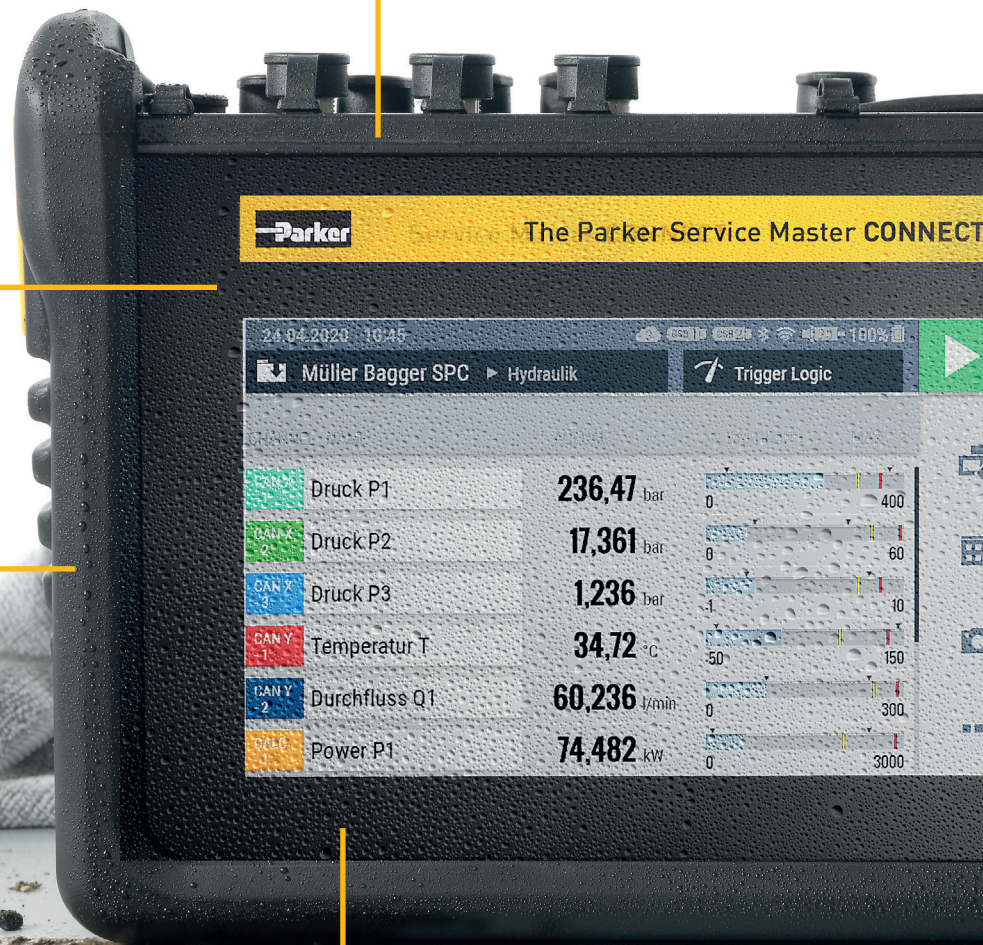
Can be flexibly used in hydraulics thanks to the wide range of sensors. For example, for service, commissioning, research and development.

Strong design, durable and easy to operate

Highly protected against moisture and dust, protection class IP 65

Illuminated and anti-glare color display for good readability in all situations, 7 inches in size for a clear overview of comprehensive information

Rugged, oil-resistant protection for use in harsh conditions and for shock absorption



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

ate.



Integrated bracket
for carry strap

Additional large tactile
keyboard to ensure
operation even in
adverse conditions

Intuitive operation
thanks to clear icons and
functional keys and apps



Easy and practical to use.

Not only for universal application, but also universal handling. The Parker Service Master CONNECT has diverse adaptation capabilities prepared:

A stand on the back, VESA-standard connection for wall mounting and a carrying strap for "man-carried" use.

Everything is intuitively possible and me

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

Analog input module for connection with Parker sensors with sensor recognition

Analog auxiliary sensors - also with high-speed feature



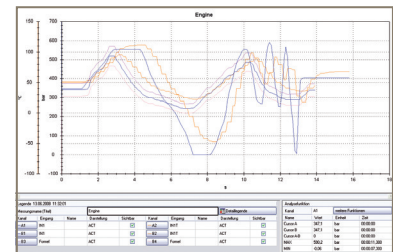
2 x CAN-BUS networks with up to 24 channels each

2 frequency inputs or D-IN/D-OUT

Sim card slot

asurable.

CAN module for monitoring CAN systems or also for connecting auxiliary CAN sensors



We are in touch with technology

With the The Parker Service Master CONNECT, we make work environments a little bit easier and more manageable. Never before has it been so easy to measure, display and analyze complex operations. Specially developed Parker sensors enable the automatic sensor recognition and the Plug & Play solution. Don't wait – start right away!

The tried-and-tested software SensoWin® is included in the delivery. With that, measurements are analyzed and test reports are easily prepared.



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

USB host interface for connection with USB mass storage.

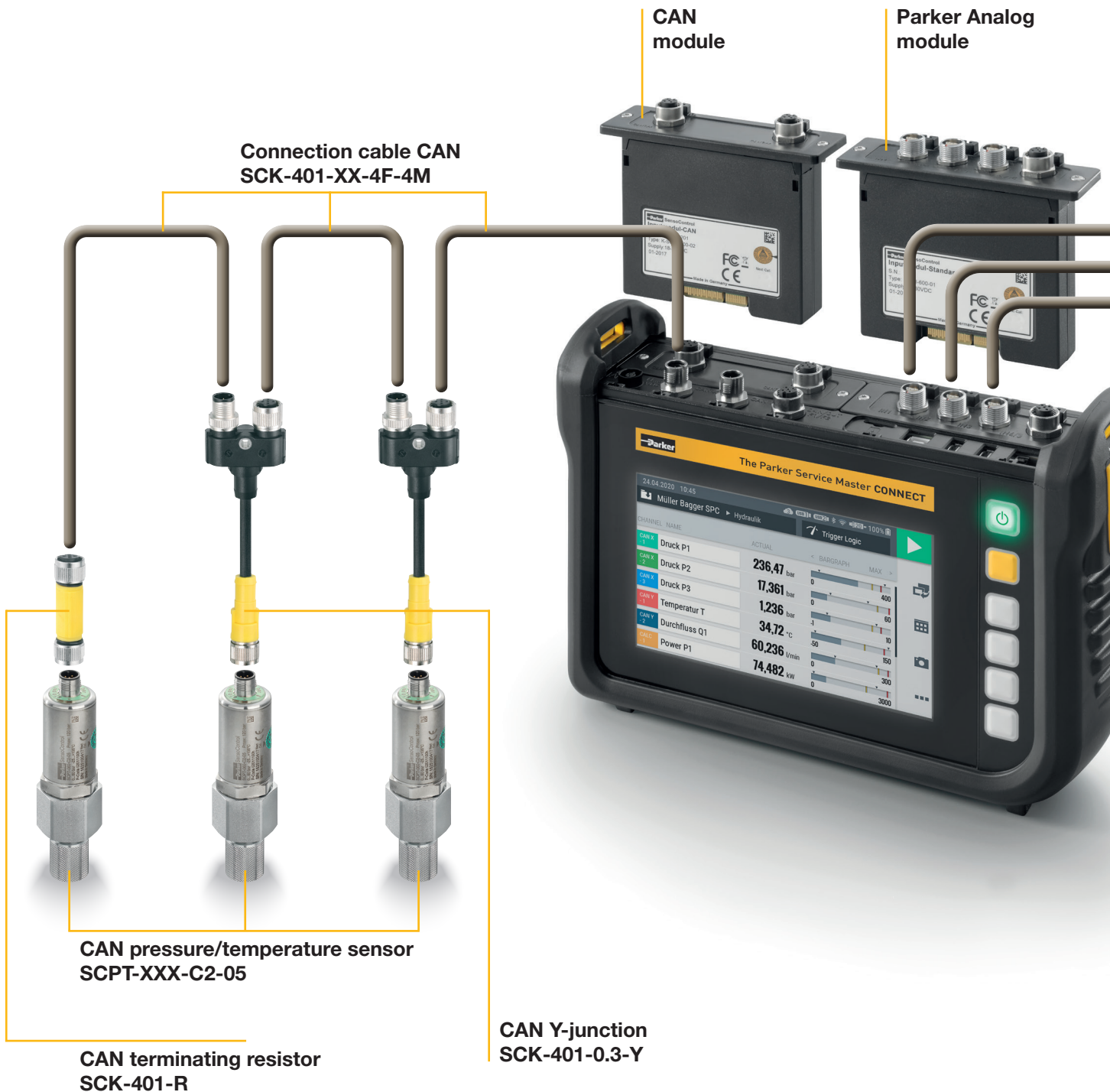
USB device interface for connection with PC, Laptop etc.

The connection artist is at home on many

Parker CAN bus sensors

Up to 24 channels are connected via one bus cable to the measuring device.

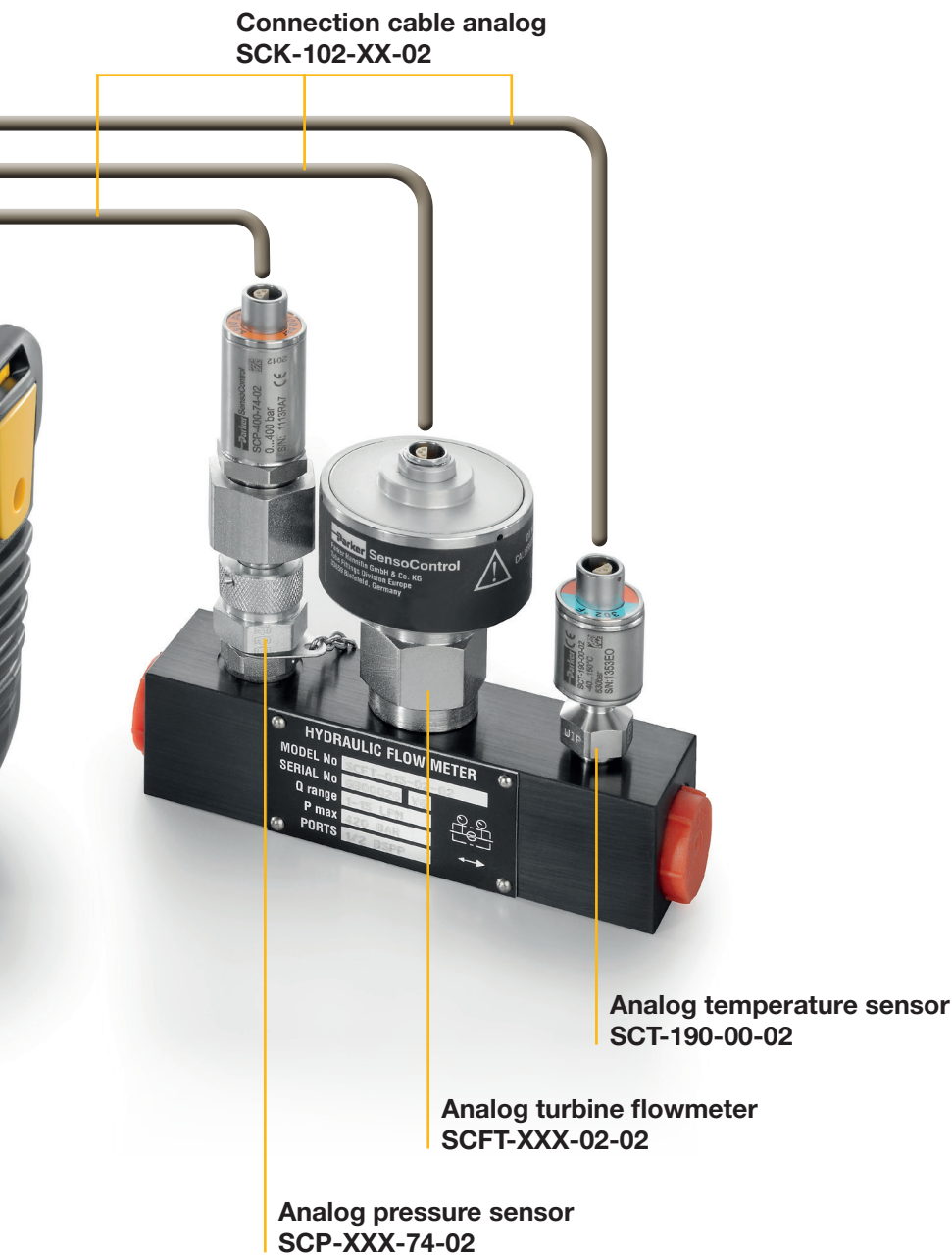
Further modules are in preparation, customer-specific solutions are possible.



y stages.

Analog sensors

The analog sensors are separately and directly connected to the measuring device.



Lighthouse with exemplary function.

The measurement device can process different electrical signals. In the range of the CAN bus technology the following sensors can be connected.

Parker CAN sensors with integrated sensor recognition. After plug in, manual parameterizing of the measurement signal and measuring range is no longer necessary – independent if pressure, temperature, flow or rpm sensors.

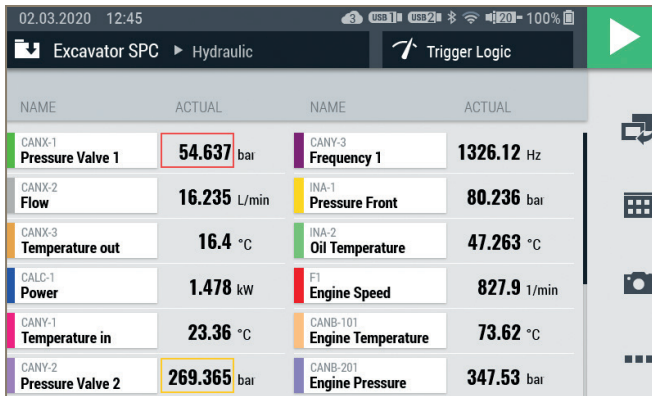
Connection of standard CAN sensors, which are supplied and processed independently by the measuring device.

Communication with a CAN system for so-called “listening”, i. e. to display and further process measurement values without interfering directly with the bus controller.

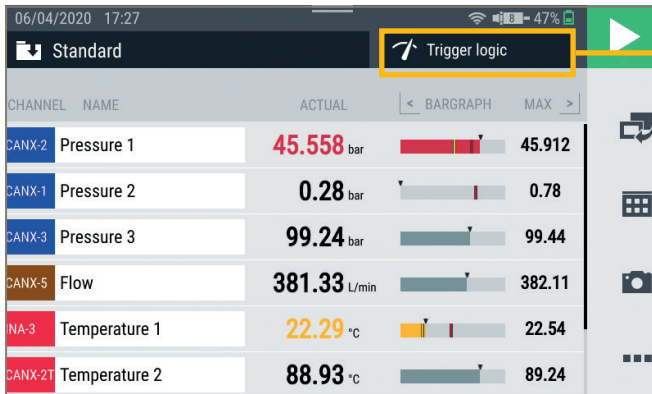
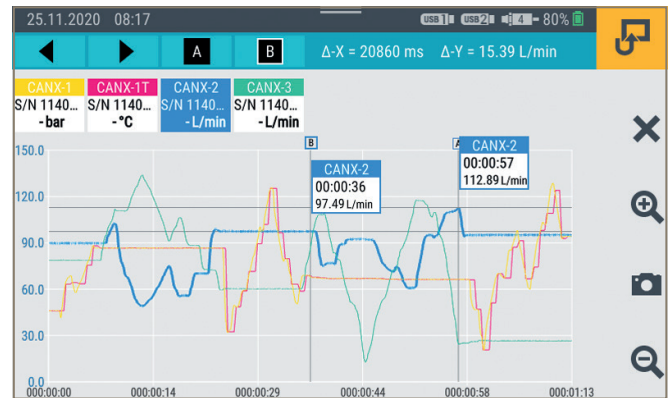
An optional CAN monitor assists during installation of CAN channels and analysis of CAN bus reports.

Evident: A large display for the smallest

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



- Up to 8 freely selectable channels simultaneously in one curve display
- Choice between ACT and MIN/MAX value presentation
- Free scalability
- For analysis purposes, up to two cursors with measured value and delta display could be inserted



- Numerical display of 6 channels with bar graph
- Display of measuring range, warning and alarm values and min. and max. values

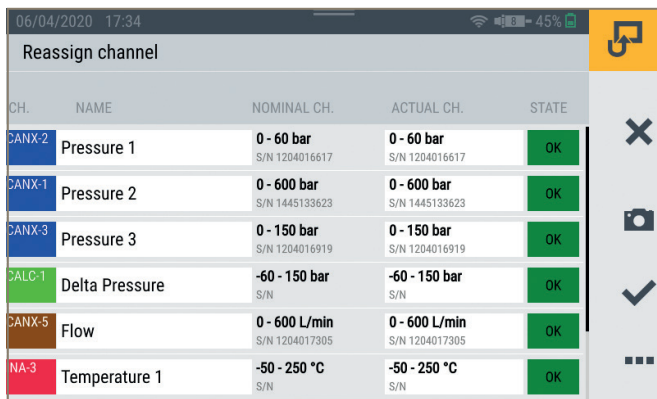
- Trigger Logic
- Start/Stop
- Data Logger
- Point Measurem...
- Trigger
- ✓ Trigger Logic
- Fast Measurem...

- Variety of measurement possibilities for different applications

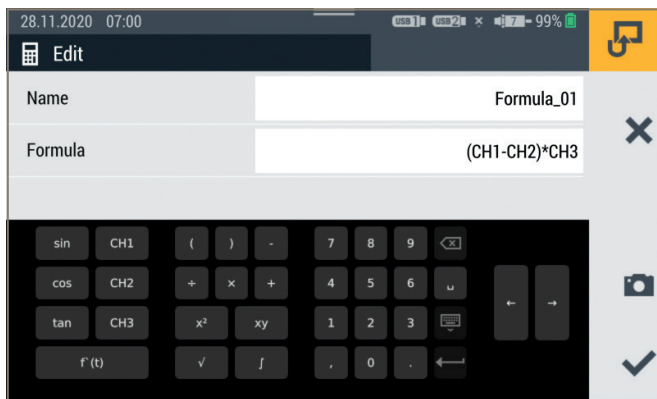


values.

- Recurring measuring tasks can easily be saved as a template
- When choosing the template, the preset measurement set up is also compared
- Using a template, ensures the comparability of the measurements.
- A current template can be duplicated and modified as needed



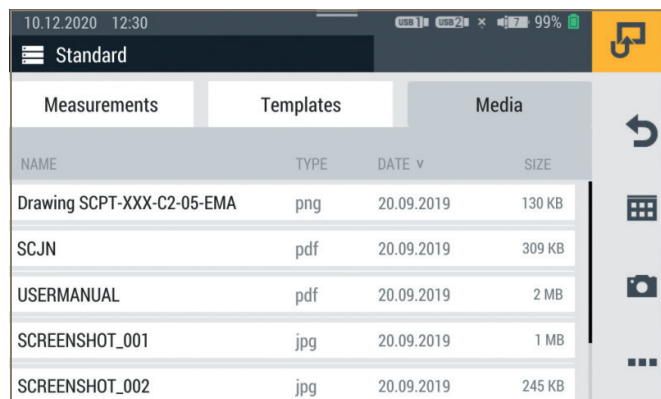
CH.	NAME	NOMINAL CH.	ACTUAL CH.	STATE
CANX-2	Pressure 1	0 - 60 bar S/N 1204016617	0 - 60 bar S/N 1204016617	OK
CANX-1	Pressure 2	0 - 600 bar S/N 1445133623	0 - 600 bar S/N 1445133623	OK
CANX-3	Pressure 3	0 - 150 bar S/N 1204016919	0 - 150 bar S/N 1204016919	OK
CALC-1	Delta Pressure	-60 - 150 bar S/N	-60 - 150 bar S/N	OK
CANX-5	Flow	0 - 600 L/min S/N 1204017305	0 - 600 L/min S/N 1204017305	OK
NA-3	Temperature 1	-50 - 250 °C S/N	-50 - 250 °C S/N	OK



Name	Formula
Formula_01	(CH1-CH2)*CH3

Calculator interface with buttons for sin, cos, tan, f(t), CH1, CH2, CH3, and mathematical operators.

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



NAME	TYPE	DATE v	SIZE
Drawing SCPT-XXX-C2-05-EMA	png	20.09.2019	130 KB
SCJN	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	245 KB

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

Specifications

The Parker Service Master CONNECT

Input/output

CAN sensor input	2 CAN bus networks, 24 Parker CAN bus sensors each. Alternative at CAN Y up to 5 external CANopen sensors. Baudrate at different CAN adjustable. 24 VDC power supply/ max. 250 mA. No mixed mode of Parker-CAN and different CAN within a CAN-Bus section possible. Internal termination impedance 120 Ohm fixed. Supports CAN 2.0 A/CAN 2.0 B. Version SMC-600-LC: max. 20 channels. SMC-600-LC: only predefined calculation channels possible.
Scanning rate	1 ms = 1.000 measurement value/s
Plug connection	M12x1, 5 pin with SPEEDCON®, connection plug
D-IN/OUT F1/2	dual-function input, which can be used either as DIGITAL-IN or DIGITAL-OUT, or through a changeover, two frequency inputs
Connection	are made available. Also possible as recognition of rotation direction.
Input	M12x1 SpeedCon female. (5 pin)
Supply	galvanic separated
Input signals	24 V DC, 80 mA
Gauge/level	Frequency (0 Hz ... 20 KHz)
Precision	Activ low: 0-1.4 V, Activ high: 3-30 V
Module slots	≤± 0,1%
Touch display	2, for input module, flexible placement possible
	7" color graphic display, 800 x 480 pixels

Calculation channels

Quantity	4
Functions	/, *, +, -, f(t), Integral, sin, cos, tan, x2, SQRT, xy
Max. offsettings of channels /Calc-channels	3

Ports

USB device	data transmission between device and PC
USB host 1	connection with external storage media
USB host 2	connection with external storage media
Memory	12 GB
LAN	connection with network cable
SIM card	MINI-SIM insert
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 1 m (EN 60721-3-7)
Vibration	(EN 60721-3-7, 7M3)
Protection class	IP 65 (EN/IEC 60529:2014)
External power supply	110/240 VAC - 24 VDC/3.750 mA KFZ charging cable as accessory (12/24 VDC)
Connection	3 pin

Battery

Lithium-ion pack, +14.4 VCD/3.250 mAh

Material

Housing	ABS/PC (thermoplastic)
Housing protective cover	TPE (thermoplastic elastomer)
Flammability rating	UE94VO
Dimensions (W x H x D)	257 mm x 181 mm x 87 mm
Weight	1880 g without input modules
VESA connection	100 x 100 mm / M4 metric



Specifications

Input module

SCMI-600-01 Parker analog

Inputs with sensor recognition	3 sensor inputs (up to 6 analog measurement channels) With sensor recognition (p/T/Q/n) for SensoControl® diagnosis sensors Plug connection: 5 pin, push-pull, combination connector/socket Sampling rate: 1 ms = 1.000 measured values/sec.
Working temperature range	-10 °C...+50 °C
Storage temperature range	-20 °C...+60 °C
Weight	152 g

Inputs for auxiliary sensors	2 sensor inputs (analog) For measuring power and voltage Scanning rate: 1 ms = 1.000 measured values/sec. Voltage measuring range: -10. . .+10 VDC Current measuring range: 0/4. . .20 mA Supply ext. Sensors: +24 VDC/max. 100 mA Plug connection: M12x1, 5 pin socket FAST-MODE scanning rate: 0/1 ms = 10.000 measured value/s
Supply	24 V DC, 100 mA
Input signal range	-10...+10 V 0/4...20 mA

Accuracy	±0.1 % FS
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Input module

SCMI-600-02 CAN

	2 x M12x1, 5 pin plug input for connection with CAN systems like CANopen, CAN generic and SAE-J1939
Connection	2 x M12 5 pol. female
Nomenclature	CAN1xx, CAN2xx, each galvanically separated
Kanale CAN1xx	24
Kanale CAN2xx	24
Standards	CAN 2.0 A, CAN 2.0 B,
Protocol support	CANopen, SAEJ1939 CAN generic, mixed mode of several CAN protocols possible
Termination impedance	Attachable/detachable
Supply signal connection	Passive, no external supply
Working temperature range	-10 °C...+50 °C
Storage temperature range	-20 °C...+60 °C
Weight	127 g

Input modules

SCMI-600-03 Parker analog ISO

Such as SCMI-600-01 Parker analog, but module electronically isolated from device

PC software SensoWin®

- Compatible with Windows 10 (32- and 64-Bit)
- Zoom functions
- Conjunction of measurement curves
- Cursor functions
- Export function
- Extensive filter function
- Remote connection/remote control
The Parker Service Master CONNECT
- Freely definable calculation channels
- Online measurement
- Easy operation



General

The PC software SensoWin® is an easy-to-use tool for reading and processing the measurement curves recorded by The Parker Service Master CONNECT.

Functions

The recorded curves can be represented in a diagram. Shifting of the curves allows for accurate analysis of the hydraulics.

A performance curve can be created to evaluate a pump. Pressure losses and leaks are detected by generating the difference values of pressure curves.

With the cursor, a hydraulic procedure can be examined relating to the time. Comprehensive information is available for each curve. That is to say the measurement recorded by The Parker Service Master CONNECT can be reproduced at any time.

Changing the scale factor and units allows for any subsequent adjustment to be shown in a diagram. Smoothing of the

measurement curve and mathematical operations are important functions in the analysis of the hydraulic system.

The date, time, and any notes are documented with each measurement, making subsequent allocation considerably easier. As a result, documentation and certificates can be generated quickly and in a cost-effective way since the PC software SensoWin® can make use of all Windows features and benefits. All measurements can be exported in CSV format.

Current findings (pressure peaks, etc.) are visible during ongoing processes (online function).



Scope of delivery

The Service Master CONNECT (without input modules)	x-	SCM-600	-	xx			
The following items are furnished with the device:							
- Power supply incl. Country adapter							
- USB 2.0 cable (2 m)							
- PC software							
The Service Master CONNECT Kit (without input modules)	x-	SCKIT-600	-	xx			
Device incl. carry strap in case with trolley function							
2 x SCK-401-05-4F-4M, 2 x SCK-401-R,							
2 x SCA-EMA-3/3, 2 x SMA3-1500							
The Service Master CONNECT with input modules	x-	SCMSET-600	-	xx	-	x	-
With calibration certificate according to ISO 9000	K-						x
Instrumentation							
with WLAN and Bluetooth LE (Europe) / no LTE							00
without WLAN and without Bluetooth							0A
Input module 1							
Input module Parker Analog SCMI-600-01							1
Input module CAN SCMI-600-02							2
Input module Parker Analog ISO (electronically separated) SCMI-600-03							3
Input module 2							
without							0
Input module Parker Analog SCMI-600-01							1
Input module CAN SCMI-600-02							2
Input module Parker Analog ISO (electronically separated) SCMI-600-03							3
Accessories				Order designation			
KFZ charging cable 24 VDC				SCK-318-05-21			
KFZ charging cable 12 VDC				SCNA-SMC-CAR			
Plug M12x1 for external sensor input				SCK-401-4M			
SMC carry strap				SC-ACC-02			
LAN-Cable				SCK-318-02-37			
Power supply incl. adapter (EUR/UK/US/AUS)				SCSN-470			
Case with Trolley function				SCC-600			
USB cable				SCK-315-02-35			

Subject to alteration.



ENGINEERING YOUR SUCCESS.

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates,
Dubai

Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, St. Florian

Tel: +43 (0)7224 66201
parker.austria@parker.com

AZ – Azerbaijan, Baku

Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/NL/LU – Benelux,

Hendrik Ido Ambacht
Tel: +31 (0)541 585 000
parker.nl@parker.com

BG – Bulgaria, Sofia

Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

CH – Switzerland, Etoy

Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany

Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst

Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup

Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid

Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa

Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Piraeus

Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaörs

Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin

Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IL – Israel

Tel: +39 02 45 19 21
parker.israel@parker.com

IT – Italy, Corsico (MI)

Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty

Tel: +7 7273 561 000
parker.easteurope@parker.com

NO – Norway, Asker

Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal

Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest

Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow

Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga

Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica

Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto

Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul

Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

UK – United Kingdom, Warwick

Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park

Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario

Tel: +1 905 693 3000

US – USA, Cleveland

Tel: +1 216 896 3000

US – USA, Minneapolis

Parker Hannifin Corporation
Quick Coupling Division

8145 Lewis Road
Minneapolis, MN 55427
Tel: +1 763 544 7781
fax: +1 763 544 3418
parker.com/conditionmonitoring

Asia Pacific

AU – Australia, Castle Hill

Tel: +61 (0)2-9634 7777

CN – China, Shanghai

Tel: +86 21 2899 5000

HK – Hong Kong

Tel: +852 2428 8008

IN – India, Mumbai

Tel: +91 22 6513 7081-85

JP – Japan, Tokyo

Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul

Tel: +82 2 559 0400

MY – Malaysia, Shah Alam

Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG – Singapore

Tel: +65 6887 6300

TH – Thailand, Bangkok

Tel: +662 186 7000

TW – Taiwan, Taipei

Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires

Tel: +54 3327 44 4129

BR – Brazil, Sao Jose dos Campos

Tel: +55 800 727 5374

CL – Chile, Santiago

Tel: +56 2 623 1216

MX – Mexico, Toluca

Tel: +52 72 2275 4200

EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

US Product Information Centre

Toll-free number: 1-800-27 27 537

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