

1 ServiceJunior

ServiceJunior with data logger

- Digital pressure measurement and back-lit display
- Measurement ranges up to 1000 bar
- Accuracy up to 0.1%
- Data logger function with integrated memory and real-time clock optional
- Pressure peak capture at 10-ms sample rate
- MIN/MAX value display
- Extremely robust and reliable thanks to metal housing
- Start/stop measurement means no more complex calculations and lengthy configurations
- Optimal storage thanks to automatic data compression



The ServiceJunior allows you to measure, display and store pressures in one device.

Its extremely robust metal housing design and easy operation make it stand out from the competition.

Several mechanical pressure gauges are often required for accurate measurements over a wide pressure range. Thanks to its high accuracy, resolution and long-term stability as well as the 4 1/2-digit display, the ServiceJunior does this job all by itself.

Pressure peaks are securely captured at a sample rate of 10 ms. The MIN and MAX function saves minimum and maximum pressures automatically and calls them up at the touch of a button.

The optional data logger with real-time clock records the current measured values as well as the minimum and maximum values. The signature Parker start/stop function with automatic data compression makes complex calculations and lengthy configurations a thing of the past. A measurement of up to 24 hours is simply started at the push of a button. The stored measurement data is transferred to a computer or laptop via the USB interface. Thanks to the universal CSV format, the data can be evaluated and documented without special software.

The device offers all the advantages of digital pressure measurement at great value for money.

Applications:

- Maintenance and service
- Pressure test
- Fault-finding
- Leak test
- Monitoring and commissioning
- Quality assurance and Laboratory

Functions:

- Min/MAX display
- Adjustable display filter
- ZERO function
- Configurable automatic shutdown
- Switchable units
- Optional data logger and real-time clock

Markets:

- Mobile hydraulics
- Industrial hydraulics
- Pneumatics
- Plant and mechanical engineering
- Environmental engineering

Finding the best measuring device

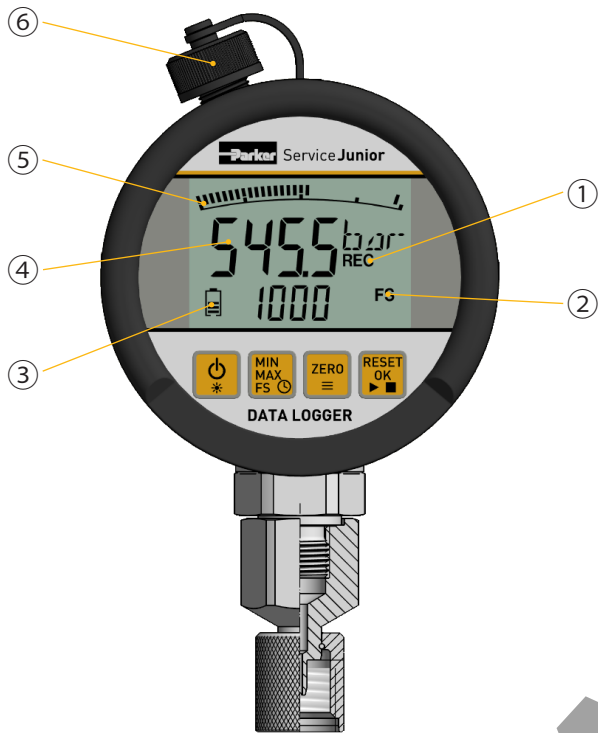
Finding the best measuring device





Selection/property	ServiceJunior	Parker Serviceman Plus	The Parker Service Master COMPACT	The Parker Service Master CONNECT
Measure	●	●	●	●
Display	●	●	●	●
Save	○	●	●	●
Measurement display	ACTUAL/MIN/MAX/FS (Peak-Hold)	ACTUAL/MIN/MAX/FS	ACTUAL/MIN/MAX/FS	ACTUAL/MIN/MAX/FS (Peak-Hold)
Sensor connection				
Sensors with recognition				
Parker CAN Bus	-	up to 3	up to 6	up to 48
Parker ANALOG	-	up to 2	up to 4	up to 6
CANOpen and SAEJ-1939 interface	-	-	-	> 100
Auxiliary sensors	-	-*	up to 2*	up to 4*
Frequency input	-	-	-	1
Calculation channels	-	1	2	4
Pressure peaks/sample rate	10 ms	1 ms	1 ms/0.1 ms	1 ms/0.1 ms
Functions				
Battery	Non rechargeable	Rechargeable	Rechargeable	Rechargeable
External power supply	—	●	●	●
Interface	USB (optional)	USB	USB	USB/Ethernet/WLAN
Online measurement	—	●	●	●
Record measurement data	○	●	●	●

* Additional auxiliary sensors with SCMA-VADC-710

- Option
- Series

Functional description



No.	Function
①	REC display, flashes when data recording is active**
②	MIN/MAX or FullScale display, depending on the setting
③	Battery level indicator
④	Actual value display
⑤	Bar graph with peak and hold functions
⑥	Mini-USB port*
	ON/OFF key Switch device on/off. Press for 2 s: Switch on the backlight for 20 s.
	MIN/MAX/FS key Select additional display value: Decrement MIN, MAX or FS/time*. Press for 2 s: Set the time (CSV formatting)*.
	ZERO/MENU key Zero point adjustment/increment time*. Press for 2 s: Open the menu.
	RESET/OK/START-STOP key Delete MIN and MAX values from the memory. Confirm menu functions. Press for 2 s: Start/stop measurement*.

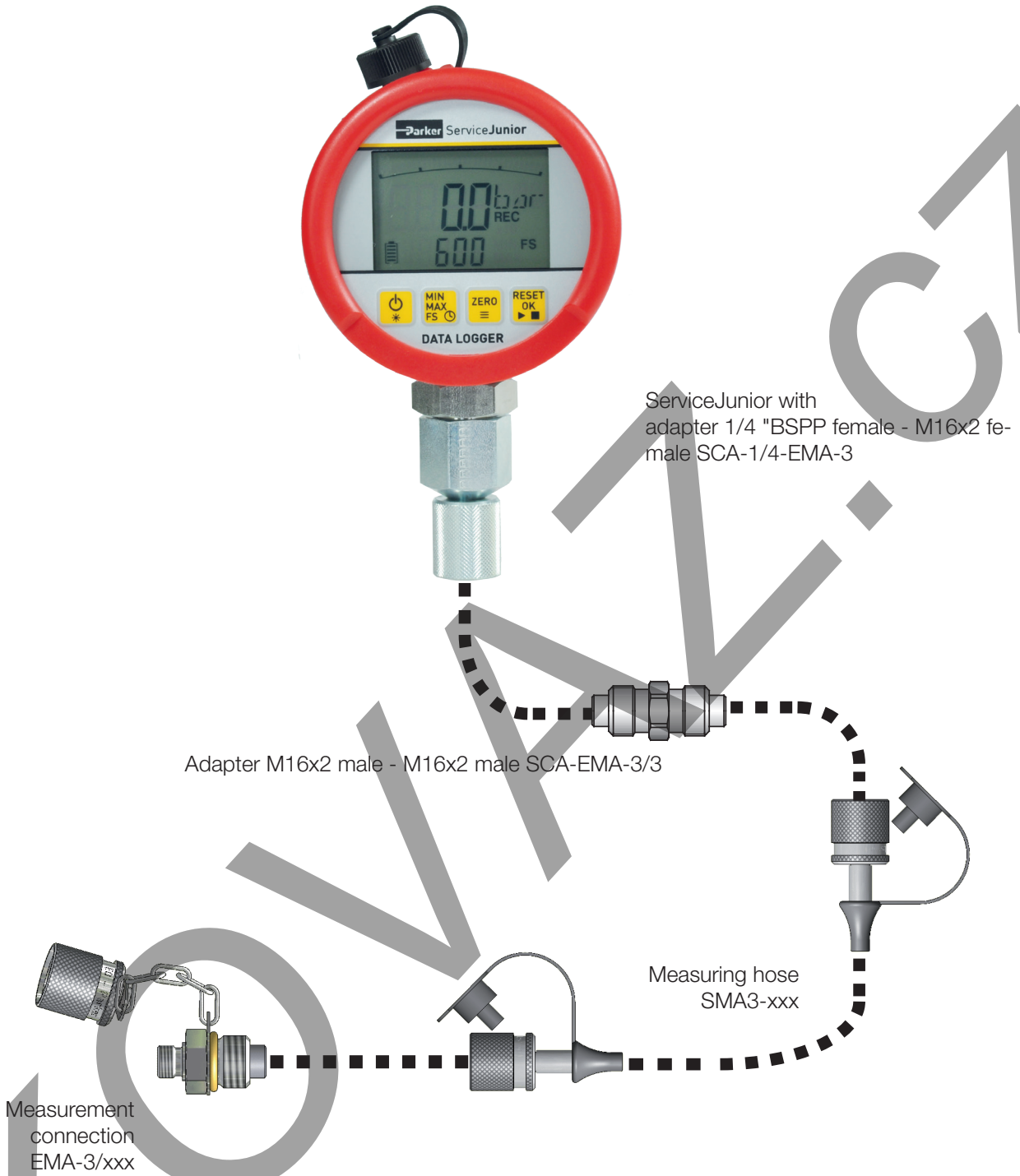
* only with data logger version



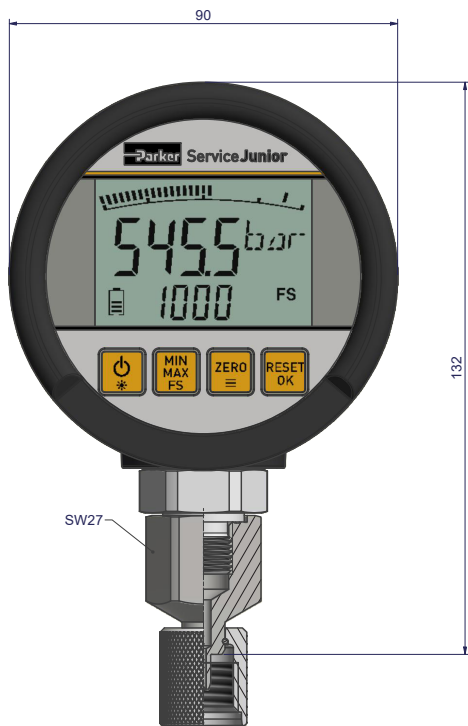
USA suitcase
(possibly different content)

1 ServiceJunior

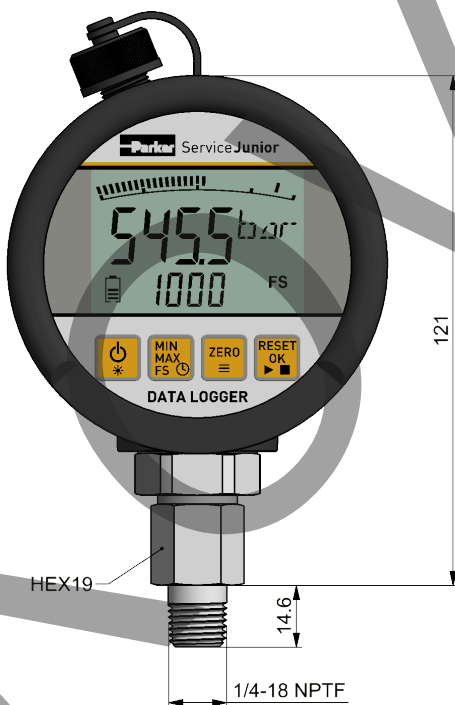
Pressure measurement



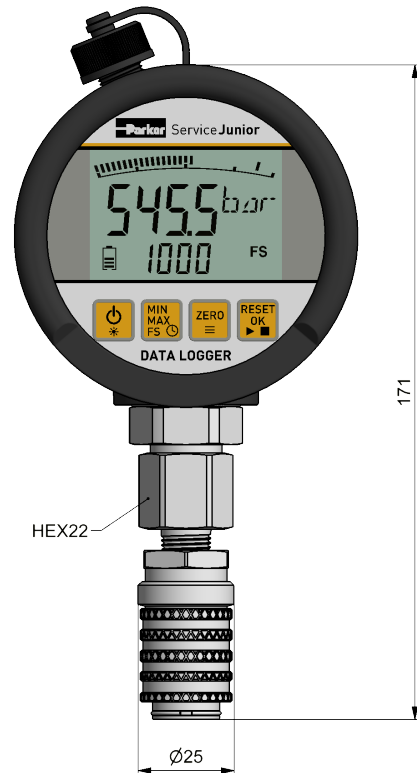
Dimensional drawings



ServiceJunior SCJN-xxx-xx



ServiceJunior SCJN-xxx-xx-4MP
(USA only)



ServiceJunior SCJN-xxx-xx-PD

1 ServiceJunior

Technical data

SCJN-	016	100	400	600	1000
Measuring range (bar) (psi)	-1...16 -14.5...232	0...100 0...1450	0...400 0...5800	0...600 0...8700	0...1000* 0...14500
Nominal pressure P_N (bar) (psi)	16 232	100 1450	40 5800	600 8700	630 9100
Overload pressure P_{max} (bar) (psi)	32 464	200 2900	800 11600	1000 14500	1000 14500
Burst pressure (bar) (psi)	160 2320	800 11600	1700 24650	2000 29000	2000 29000
Housing	Ø = 90 mm, D = 45 mm Die-cast zinc with rubber protective cover TPE				
Weight	approx. 500 g				
Outlet Connection	Stainless steel 1/4" BSPP (ISO 228-1), Adapter M16x2 SCA-1/4-EMA-3 in scope of delivery				
Input	10-ms sample rate Accuracy 0.5 % FS ±1 Digit: SCJN-xxx-01 0.1 % FS ±1 Digit: SCJN-xxx-02 + 0.2%/year				
Display indication	LC text display 4.5 digits backlight				
Seal	NBR				
Media-contacting parts	Stainless steel, NBR				
Power supply	2 x 1.5 V batteries (AA) Battery life max. 1,500 h				
Functions	Units: mbar, bar, PSI, Mpa, kPa, kg/cm ² Representation MIN/MAX/FS Battery level indicator Auto Power Off/On Zero (zero point adjustment) Reset (delete MIN/MAX)				
Data logger (optional)	Mini-USB port / with protective cap Real time clock Storage rate from 100 ms. Up to 18000 readings (automatic data compression) Maximum measurement time: 24 hours Number of measurements: 10 Storage format: CSV				
Ambient conditions	Ambient temperature -10... + 50 °C (0 ... 50 °C for SCJN-xxx-x2) / +14 ... + 122 °F (+24 ... +122 °F) Storage temperature -20...+60 °C / -4...+140 °F Media temperature -20...+80 °C / -4...+176 °F Rel. humidity < 85 % Protection class IP67 EN 60529, data logger version IP65 Vibration IEC 60068-2-6/ 10...500 Hz, 5 g Shock load IEC 60068-2-29/25 g, 11 ms				
Load change	100 mil.				

* Nominal pressure 630 bar, for pressure peaks up to 1000 bar

Order codes and accessories

ServiceJunior

ServiceJunior with ISO 9001 calibration certificate

SCJN - xxx - x x - xx
 K- SCJN - xxx - x x - xx

Pressure range

- 1...16 bar (-14.5...232 psi)
- 0...100 bar (0...1450 psi)
- 0...400 bar (0...5801 psi)
- 0...600 bar (0...8700 psi)
- 0...1000 bar (0...14503 psi)

- 016
- 100
- 400
- 600
- 1000

Version

- without data logger
- with data logger

- 0
- L

Accuracy

- 0.5%
- 0.1%

- 1
- 2

Adapter

Standard: SCA-1/4-EMA-3CF adapter (EMA3 M16 x 2)

PD adapter

PDP adapter (USA only)

4MP adapter (USA only)

- PD
- PDP
- 4MP

ServiceJunior kits: Measurement ranges -1...016 bar/0...100 bar/0...400 bar/0...600 bar

Order designation

Scope of delivery:

- Equipment case SCC-120 (USA case SCC-300)
- ServiceJunior SCJN-xxx-x1 (0.5%) incl. adapter (1/4" BSPF female - M16x2 female) SCA-1/4-EMA-3CF
- Adapter (M16x2 male - M16x2 male) SCA-EMA-3/3
- Measuring hose 1,500 mm (M16x2) SMA3-1500CF

ServiceJunior kit	SCJN-KIT-xxx
ServiceJunior kit with calibration certificate as per ISO 9001	K-SCJN-KIT-xxx
ServiceJunior kit with PD adapter (USA only)	SCJN-KIT-xxx-PD
ServiceJunior kit with PD adapter and calibration certificate as per ISO 9001 (USA only)	K-SCJN-KIT-xxx-PD
ServiceJunior kit with data logger	SCJN-KIT-xxx-L1
ServiceJunior kit with data logger and ISO 9001 calibration certificate	K-SCJN-KIT-xxx-L1

* only 0.5% accuracy, not available for 1,000 bar

Spare parts/accessories

Order designation

Equipment case	SCC-120
Blue rubber protection (16 bar / 230 psi)	SCJN-RUBBER-BLU
Green rubber protection (100 bar / 1500 psi)	SCJN-RUBBER-GRE
Rubber protection orange (400 bar / 5800 psi)	SCJN-RUBBER-ORA
Rubber protection red (600 bar / 8700 psi)	SCJN-RUBBER-RED
Black rubber protection (1000 bar)	SCJN-RUBBER-BLA