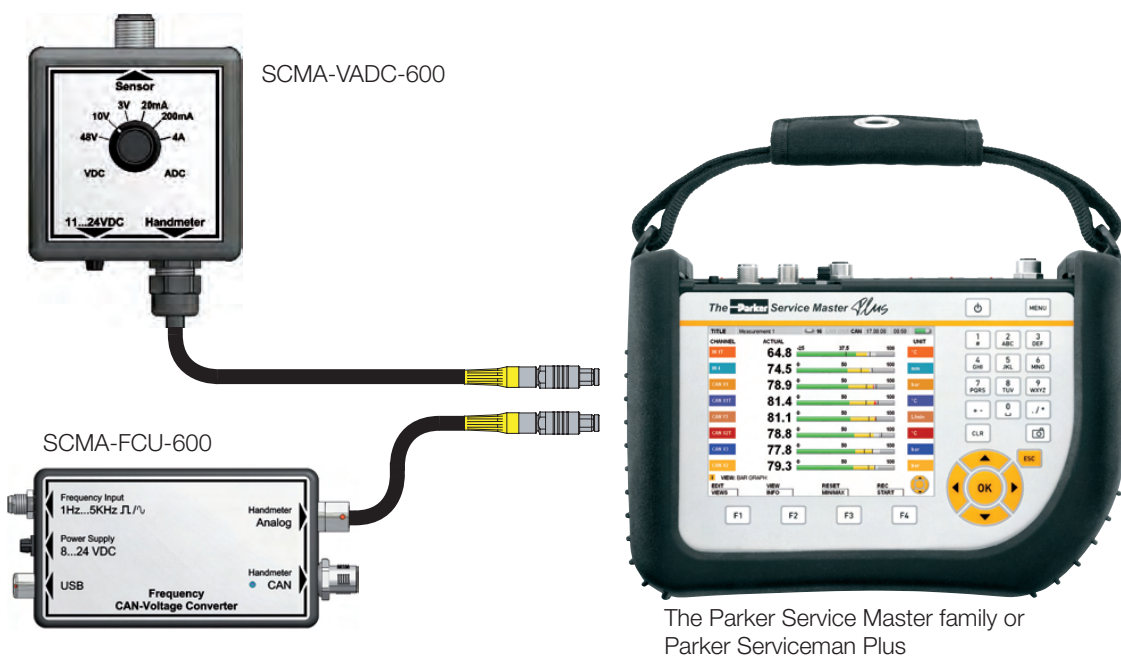


7 Electrical signal measurement

Electrical signal measurement



Measuring frequency with the SCMA-FCU-600

The SCMA-FCU-600 can be used to connect frequency signals (for example from turbines, flow counters or tachometers) to our handheld measuring devices. The instruments can process sinus and rectangle signals from 1 Hz to 5 kHz with signal amplitudes from 40 mV to 10 V. Configuration is possible via USB and PC software.

■ Power supply for the external sensor

An external sensor can be supplied with 24 V using the SCMA-FCU-600.

■ Analogue and CAN output

The SCMA-FCU-600 can be connected either to the analogue input or the CAN input of our measuring devices.

Measurement of external sensors with the SCMA-VADC-600

Signals such as 0/4...20 mA or 0...10 V from external sensors, (for example for torque, power or path) are connected to the The Parker Service Master.

Applications

- Force-path diagram
- Torque/flow volume nominal lines

■ Current/voltage measurement

Electric currents up to 4 ADC or voltages up to 48 VDC can be measured with this module.

Applications

- Current consumption of a proportional valve
- Measurement of switch status of motors/pumps

7 Electrical signal measurement

Technical data

	SCMA-FCU-600	SCMA-VADC-600	
External sensor port			
Measuring range	1 Hz...5 kHz, sinus and rectangle signals 40 mVpp...10 Vpp	Voltage DC ±3 V ±10 V ±48 V	Current DC ±20 mA ±200 mA ±4,000 mA
Sensor power supply	24 VDC ±0.5 VDC	24 VDC ±0.5 VDC	
IOut (Max) without power supply	50 mA	50 mA	
IOut (Max) with power supply at 24 VDC	100 mA	100 mA	
Accuracy	0.5 % FS ±0.05 %/°C	0.5 % FS ±0.02 %/°C 1.5 % FS at 4 A measuring range	
Power supply			
Power supply (external)	8 ...24 VDC	11 ...24 VDC	
Connections			
Sensor	4-pin, M8, plug (female with screw-in connections included in supply package)	4-pin, M12x1 , female (connection cable with banana jack included in supply package)	
External power supply	3-pin, female	3-pin, female	
USB	4 pin, female (cable included in supply pack- age)	-	
Analogue	5-pin, female	Fixed cable	
CAN	5 pin, M12	-	
Ambient conditions			
Ambient temperature	0 °C to 60 °C	0 °C to 60 °C	
Storage temperature	-25 °C to 70 °C	-25 °C to 70 °C	
Rel. humidity	< 80 %	< 80 %	
Type of protection	IP40 EN 60529	IP40 EN 60529	
Housing dimensions	114 x 64 x 26 mm	67 x 68 x 28 mm	
FS = FullScale			