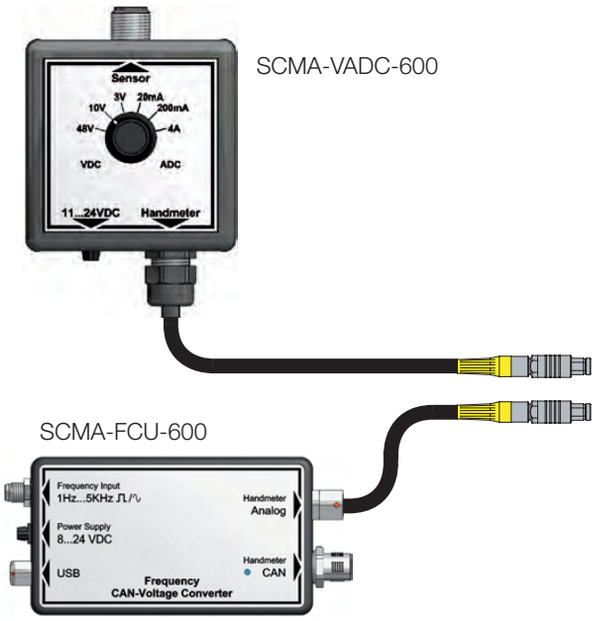
7 Electrical signal measurement

Electrical signal measurement





The Parker Service Master family or Parker Serviceman Plus

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 package)	-	
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

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