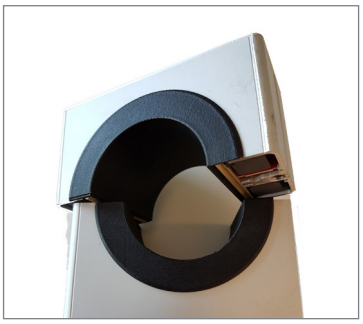
SCG 2.0 SENSOR UNIT



General description
The sensor has a split core design. This makes installation around the cable or the earth lead easy. The sensor measures the PD activity and fault signals and injects a signal into the cable for time synchronization. Each sensor is paired with a second sensor connected toanother control unit at the other end of the power cable that is monitored.



TECHNICAL DATA

Storage conditions

Temperature (°C)	-25 to +70°C
Temperature (°F)	-13 to +158°F
Relative humidity	95% max. @55°C/130°F (non-condensing)

Operating conditions

Temperature (°C)	-10 to +55°C
Temperature (°F)	+14 to +131°F
Relative humidity	95% max @55°C/130°F (non-condensing)

Physical

Weight (kg)	1.3 kg
Weight (lbs)	2.9 lbs

Dimensions D x W x H (mm)

Enclosure	200 x 115 x 50 mm
Including bolts and plastic parts	220 x 115 x 55 mm

Dimensions D x W x H (in)

Enclosure	7.9 x 4.5 x 2.0 in
Including bolts and plastic parts	8.7 x 4.5 x 2.2 in

Enclosure	Sheet ALU IEC
Inner ring	Insulating plastic
Inner ring diameter (mm)	59 mm
Inner ring diameter (in)	2.3 in
2-part connection bolts	Torque spanner 2.5 Nm

External AC/DC adapter

Input voltage	100-230 Vac, 50/60 Hz
Power consumption	6 W (average), 10 W (peak)
Output voltage	5 Vdc
Weight (g)	350 g
Weight (lbs)	0.77 lbs
Dimensions (mm)	80 x 45 x 30 mm
Dimensions (in)	3.1 x 1.8 x 1.2 in
Length DC cable (m)	1.5 m
Length DC cable (ft)	4.9 ft

Measuring

Installation location	Around earth lead or power cable
Measurement bandwidth	100 kHz - 10 MHz
Maximum 50 Hz current	175 A continuous
Sampling frequency	50 MS/s
Sample resolution	14 bits
Injected pulses bandwidth	100 kHz - 10 MHz
Injected pulses peak voltage	60 V (max)

Connections

Functional earth	M6 terminal
External power adapter	Screw-type DC connector
Fiber optic	IP40

Standards

General requirements	IEC 61850-3
Ingress protection	IP40

Warranty	Hardware 2 years

Version SCG2.0-SU-r7

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