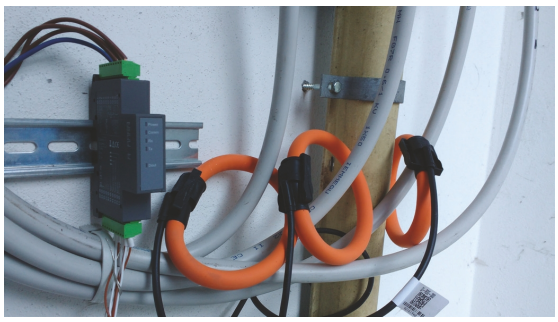
QI-ROG-XXX

FLEXIBLE ROGOWSKI PROBES

TECHNICAL FEATURES	
TRANSDUCER O.D. (COIL CROSS SECTION)	12 mm
TRANSDUCER LENGHT	300, 400 or 500 mm (other on request)
CAP COUPLING O.D.	17 mm (max)
MAX DIAMETER OF CONDUCTOR OR BUS BAR	QI-ROG-300: 84 mm QI-ROG-400: 115 mm QI-ROG-500: 147 mm
MATERIALS	Transducer & Cable: thermoplastic rubber, flame retardant UL94 V0 rated
ENVIROMENTAL CONDITIONS	
WORKING TEMPERATURE	-20°C...+70 °C
RELATIVE HUMIDITY	85% max without condensation
POLLUTION DEGREE	2
MAXIMUM ALTITUDE	2000 m
ELECTRICAL DATA	
MAXIMUM MEASURABLE CURRENT	**100 kA @ 50 Hz**
ACCURACY	± 1%
LINEARITY	± 0,2%
OUTPUT SIGNAL	**100 mV / 1000 A @ 50 Hz**
FREQUENCY RANGE	20 Hz… 5 kHz
POSITION SENSIVITY	
CONDUCTOR	± 2% maximum on closing unit
EXT. FIELD INFLUENCE	± 0,5% maximum
TEMPERATURE SENSIVITY	± 0,07% per °C
SAFETY	
MAX WORKING VOLTAGE	1000 V @ 50/60 Hz (CAT III)
HI POT TEST (TRANSDUCER & OUTPUT CABLE)	7400 Vac @ 50/60 Hz for a minute

Available in different lenght and colors. The probes can be used with specific Power meter (QE-POWER-T) or through converter (QE-CURRENT-485).

ORDER CODE: QI-ROG-XXX



What's a Rogowski probe?

The Rogowski probe (or Rogowski coil) its an electrical device for measuring alternating and impulsive type of currents. The device consists of a conductor cable neatly wound in a helical shape on a flexible support, to form a coil (solenoid) of appropriate lenght.

The main advantage offered by a Rogowski coil compared to other measurement methods (curront transformers, Hall probe sensors…) consists of the flexibility and deformability of the probe, allowing it to be wrapped around a live conductor without disturbing it.

Since a Rogowski coil is not wound on an iron core, it has a low inductance which gives it a strong propensity to measure currents that vary over time even with high speed.