

CURRENT CLAMP SENSOR — **Rogowski Coil for wide range at high accuracy**



SUTO current clamp sensor is an AC RMS current sensor composed of a flexible active part (Rogowski coil model) connected to a compact digital converter, capable of measuring the current carried on a power conductor up to a value of 3000 A AC.

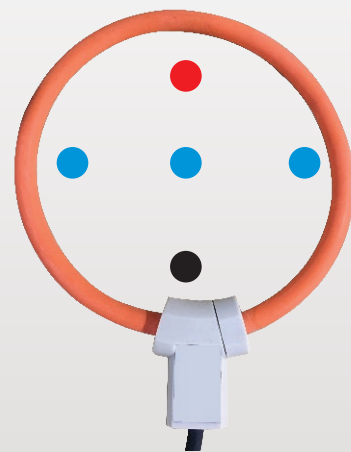
The digital converter supplies an output of 4-20 mA DC in linear proportion to the measured current.

CURRENT SENSOR APPLICATION

- Current sensing at compressors for load / unload analyzes
- Current sensing for power / energy measurement
- Evaluation of machine operation hours

CURRENT SENSOR FEATURES

- Easy installation
- Wide measuring range
- Accurate current sensing
- 4-20 mA output signal



Position sensitivity	
Conductor Position	Typical Error(%)
●	<0.5%
●	<0.8%
●	<1%

CURRENT SENSOR TECHNICAL DATA

General Specifications	S 554 0155 / S 554 0156	S 554 0157 / S 554 0158
Measuring range	10 ... 1000 A AC	30 ... 3000 A AC
Fundamental frequency	40 ... 70 Hz	
Output signal	4 ... 20 mA DC 0 A AC = 4 mA DC 1000 A AC = 20 mA DC	4 ... 20 mA DC 0 A AC = 4 mA DC 3000 A AC = 20 mA DC
Maximum output	21,6 mA DC	
Load impedance	≤ 300 Ω	
Accuracy	0.5% of reading + 0.2% of range	
Power supply	10 VDC to 32 VDC	
Current consumption	≤ 30 mA	
Clamp diameter	100 mm (1000 A)	150 mm (3000 A)
Maximum temperature of clamped cable	≤ +80°C	
Protection rating	IP67	

CURRENT SENSOR ORDERING

Please use the following table to assist in placing your order with our sales staff.

Current Sensor	
Order No.	Description
S554 0156	SUTO current clamp sensor, 1000A, 100 mm diameter, including connector to S 551
S554 0155	SUTO current clamp sensor, 1000A, 100 mm diameter, open wire ends
S554 0157	SUTO current clamp sensor, 3000 A, 150 mm diameter, including connector to S 551
S554 0158	SUTO current clamp sensor, 3000 A, 150 mm diameter, open wire ends



COMPRESSED AIR TECHNOLOGY

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