

## ⇒ Highlights

PP Patent Protection

- Accuracy up to class 0.2
- Accuracy specification includes wire position influence
- Symmetric flexible shielding <sup>PP</sup> for suppression of strange electric fields
- Symmetric sensor coil <sup>PP</sup> for suppression of strange magnetic fields
- Composite sensor core for low TC and long term stability
- High load capability
- Flexible sensor cable with 6 mm diameter

## ⇒ Description

Precision Flexible AC Current Transformer SymmProFlex® FCT 2161 is based on Rogowski principle designed to measure alternating current and to transform the measured current to standardized 5 A level.



## ⇒ Available Models

Model	Class
FCT 2161C	0.2
FCT 2161D	0.5
FCT 2161P	1.0

## ⇒ Technical Specification

General Parameters	
Basic Frequency	40 Hz .. 70 Hz
Working Frequency (3dB)	10 Hz .. 10 kHz
Rated Current Range * (crest factor <1.5 @ Basic Frequency)	100 A rms .. 9000 A rms
Output Current Maximum	6 A rms; 10 A peak
Operating / Test Voltage <i>Sensor Cable except coupling area</i>	600 V / 3 kV
Maximum Load	0.2 Ω / 8 VA
Operating Temperature	-20 .. +60 °C
Storage Temperature	-20 .. +60 °C
Size of electronics (L x W x H)	91 x 71 x 58 mm (DIN Rail Compatible)
Power Supply	48 V ( 24 V – 72 V) DC
Consumption	15 W max.
Output Connection	Terminal Block

Accuracy Specifications	FCT 2161C	FCT 2161D	FCT 2161P
Amplitude gain error	<0.2 %	<0.5 %	<1 %
Phase error	<0.05 °	<0.15 °	<0.2 °
Influence of External Current	<0.1 %	<0.3 %	<0.5 %
TC	<0.005 %/K	<0.01 %/K	
Influence of Potential of adjacent conductor	<1 μA/V (Input Current )		
Input Noise (0.1 Hz<f<10 Hz)	<10 mA p-p (Input Current )		

Sensor	
Sensor Cable Length *	500 mm
Sensor Cable Diameter / Minimum Bend Radius	6 mm / 60 mm
Signal Cable Length *	1 m

Options
*Customized Cable Lengths and/or Rated Current

FCT 2161x /SeCL /SiCL /MaxC	
x ... class : <b>C</b> =0.2%, <b>D</b> =0.5% <b>P</b> =1%	<b>Default configuration:</b> <b>FCT 2161P /500 /1000 /3000</b>
<b>Optional</b> <b>SeCL</b> ... sensor cable length [mm] <b>SiCL</b> .... signal cable length [mm] <b>MaxC</b> .....maximal current [A]	