# ASC020 – ASC500 Series AC Current Transducers

- Split core CT for easy non-intrusive installation
- Loop powered, reducing wiring
- 3 year warranty as standard
- CE compliant
- Connect directly to PLC / Data Logger

## APPLICATION

- AC current monitoring (20A - 500A ranges)
- AC current signal conditioning (to 4-20mA)

## TECHNICAL SPECIFICATION

### INPUT

Current (AC @50/60Hz) can be specified in the range of:
0 - 20A, 0 - 30A, 0-50A, 0-100A, 0-150A, 0-200A,
0–300A, 0–400A, 0–500A
(21mm through hole diameter as standard)

Multi-Turns required at installation for ranges <20A.
E.g. 0-10A monitoring = 2 x through turns.

### OUTPUT

4 – 20mA DC Sinking current. 20mA max
Output Load: 450R ohms max @ 24Vdc supply.
Loop supply voltage: 24Vdc ±10%
Linearity: < ±1%
Accuracy: < ±0.5%
Response Time: ≤20mS
Freq Bandwidth: 20 to 10kHz

### CONTROLS

Single turn potentiometers for output calibration,
Zero / Span: +/- 25%

### Protection

Isolation 3000V RMS. Input / Output / Case
Input over range up to 200% continuous.
Enclosure: ABS (UL 94V-0) / Encapsulation

### ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +100℃
Operating Ambient:-25 to +85℃ Temp Coefficient<0.03%/℃
(Temp Coefficient at -40°C / -55°C: <0.1%/°C)
Relative Humidity: 5 to 95% RH (Non-condensing)
For 100% RH applications the zero/span adjustment pots need sealing & use only the side integrated cable option
IP Rating: IP60 as standard

### MOUNTING

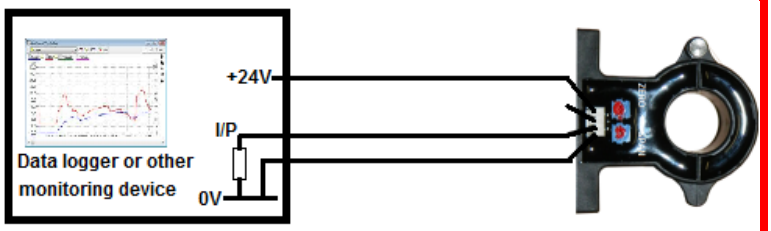
Mounting: Surface, or Clip on. (Weight < 70g)
Output/Supply wiring: Plug-in screw terminals as std
(Mowlex connector or Side Integrated cable optional)
Installation: CAT II

### Additional options:

Other AC signal Frequency options available on request ('HzX')
IP65 sealing on request (& with side integrated cable).
Larger (40.5mm) through hole diameter available on request ('X')
True RMS input measurement option available on request.

### WIRING



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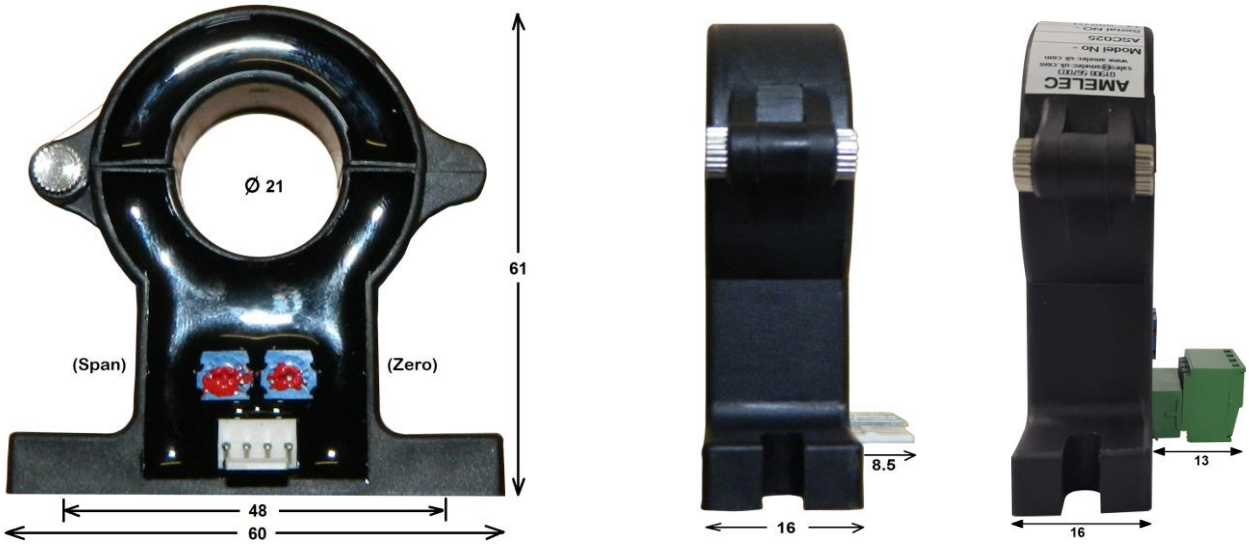
**DIMENSIONS (mm)**




**INSTALLATION**

**To avoid damage to the case, the input cable should be formed to shape and supported.**

1. Remove screw to release split-core

2. Place the cable

3. Screw the split-core back into closed position

4. Finish

**SAFETY NOTE:**

The cable running through the split core may be carrying dangerous high voltage. For this reason, this product should only be installed by a competent person. If the unit fails to operate correctly then first check that the wiring is correct. Under no circumstances is the unit to be taken apart to gain access to internal circuitry for any reason whilst it has a live cable through the core.