

The easiest and simplest devices for measuring current

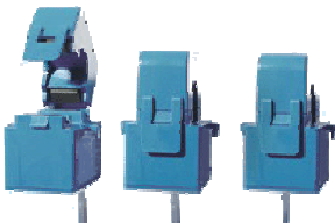


**XD
Ring Series**

- **Safe & Simple Current Measurement**
True rms or Mean Sensing
- **Quick to Install**
No external CTs required
- **5mA to 300 Amp**
Without CTs
- **4 – 20mA or 0 – 5V_{dc} Outputs**
Process Control
Circuit Monitoring
- **Pulse Output**
Energy Management Metering
- **High Overload withstand**



**SXD
Clip-on Series**



Retro-fit — just clip round the Cable. It could not be easier.

New Installation — no needs for CTs. Clip onto the rail, pass the cable through the hole

Current Measurement

4-20mA or 0-5V_{dc} Output. Mean Sensing or True rms

Energy Management

Pulse Output Meter replacement

Earth Leakage measurement

4-20mA True rms from 5mA (XD-R420-0)

Motor Control

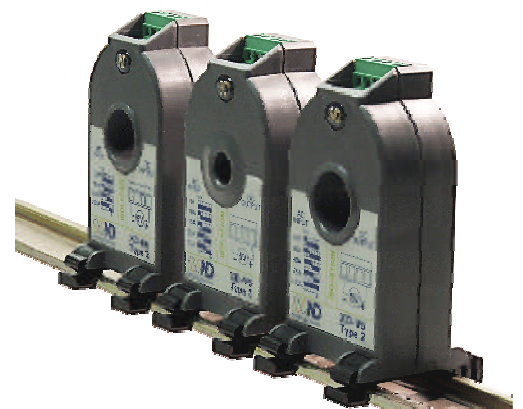
ON / OFF and failure sensing

Actuators

Operation / Failure

Lamp Failure

Multiple lamps can be monitored with a single XD Transducer



XD Transducers are the simplest devices possible for measuring current or monitoring consumption – just pass the cable through the hole; with the **SXD** ideal for retrofit – just clip around the Cable.

For ultimate simplicity, the **XD-V5** & **SXD-V5** models are self powered.

For maximum flexibility, the **4-20mA** versions are available either Mean-Sensing or True-rms.

The **XD-R0** low current model can be used for simple current measurement or - if all the cores are passed through the aperture - as a core-balance **Earth Leakage** transducer.

Lower Currents can always be measured by passing two or more turns of the primary cable through the XD Transducer.

| | | XD Models | | | |
|----------------------|------------------|------------------|-----------------|-------------------|--------------------|
| Current Range | | 100mA to 1 Amp | 5 Amp to 25 Amp | 30 Amp to 100 Amp | 100 Amp to 300 Amp |
| | Max Cable ϕ | 19mm | 10mm | 19mm | 19mm |
| Output | Measurement | | | | |
| 0 - 5 Vdc | Mean Sense | | XD-V5-1 | XD-V5-2 | XD-V5-3 |
| 4 - 20mA | Mean Sense | | XD-I420 - 1 | XD-I420-2 | XD-I420-3 |
| 4 - 20mA | True rms | XD-R420-0 | XD-R420-1 | XD-R420-2 | XD-R420-3 |
| Pulse Contact | True rms | | XD-P-1 | XD-P-2 | |

| User Selectable Current Range & Supply Requirements | | | | | |
|--|------------------------------|---------------------------------------|---|---|------------------|
| Type | 100mA to 1 Amp | 5 Amp to 30 Amp | 15 Amp to 100 Amp | 50 Amp to 300 Amp | Aux Supply |
| XD-V | | | | | |
| XD-I | N / A | 5, 10, 15, 20, 25 & 30 [*] A | 15 [*] , 30, 45, 60, 75 & 100A | 50 [*] , 100, 150, 200, 250 & 300 [*] A | None 24V Loop |
| XD-R | 100, 200, 500, 600 & 1000 mA | 5, 10, 15, 20, 25 & 30A | 20, 40, 60, 80 & 100 A | 50 [*] , 100, 150, 200, 250 & 300 [*] A | 24V Loop |
| XD-P | N / A | 7.5A, 15A, 22.5A & 30A | 30A, 60A, 90A & 120A | N / A | 24V dc 10mA |
| SXD-V | N / A | | 5, 10, 20, 40, 50 or 100A | Factory Set | |

Brief Specification

| | | | | |
|---|--|--|---|---|
| Input SXD | 5, 10, 20, 40, 50 & 100 A | | Output Burden SXD-V5 & XD-V5 XD-I420 & XD-R420 | 100k Ω min 250 Ω nominal, 600 Ω max |
| XD-V5-1 XD-V5-2 XD-V5-3 XD-R420-0 XD-R420-1 XD-R420-2 XD-R420-3 XD-P-1 XD-P-2 | XD-I-420-1 XD-I420-2 XD-I420-3 | 5, 10, 15, 20, 25 or 30 [*] A 15 [*] , 30, 45, 60, 75 or 100A 50 [*] , 100, 150, 200, 250 or 300 [*] A 100, 200, 500, 600 or 1000mA 5, 10, 15, 20, 25 or 30 A 20, 40, 60, 80 or 100A 50, 100, 150, 200, 250 or 300A 7.5, 15, 22.5 or 30A 30, 60, 90 or 120 A [*] At reduced accuracy | Pulse Output XD-P Rating Calibration | Isolated from dc supply, 50V max 50V ac or dc and 100mA max 230V at PF=1 1f or 3f, user selectable 100 or 1000 pulses/kWh |
| Frequency Range Standard | 45Hz - 65Hz Standard | | Aux Supply SXD-V5 & XD-V5 XD-I420 & XD-R420 XD-P | None Loop 24Vdc (16 - 36V) 24Vdc (16 - 36V) at 10mA max |
| Operating Range SXD-V, XD-V & XD-P XD-I and XD-R | 0 - 120% nominal FS Amp 0 - 100% nominal FS Amp | | Max Cable Diameter XD-1 Models XD-0, -2 & -3 Models SXD Models | 10mm 19mm 16mm |
| Overload for 2 seconds Continuous | XD TBC TBC | SXD x 20 I _n min x 2 I _n min | Isolation Input to Output | 4kV 50Hz 1 sec test |
| Output SXD-V5 & XD-V5 XD-I420 XD-R420 XD-P | 0 - 5V dc 4 - 20 mA 4 - 20 mA Volt -free contact | | XD Dimensions | 95 x 52 x 32 mm 99 mm above & 52 mm along rail |
| Response Time | Less than 1 sec | | SXD Dimensions | 51 x 45 x 37 mm 16mm Cable Aperture |
| Accuracy -V, -I & -R Models -P Models | Better than Class 1 EN 60688 Equiv to Class 1 EN 60253-11 and BS DD 8431 | | Environmental Operating Temp Range Storage Temp Range Humidity Protection Category | -10°C to + 65°C -40°C to + 85°C < 95% non-condensing IP50 |
| Crest Factor XD-RXD Others | TBC YBC | | XD Mounting Plate DIN Rail | 35 x 38 mm Fixing Centres TS35 DIN Rail (Clips supplied) |