



XD Current Transducers

The easiest and simplest devices for measuring current

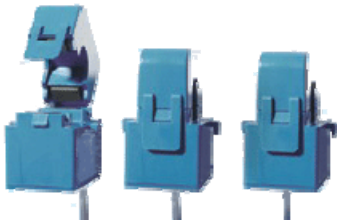


**XD
Ring Series**

- **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-RO** 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
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	
XD-V5-1 XD-V5-2 XD-V5-3	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
XD-R420-0 XD-R420-1 XD-R420-2 XD-R420-3 XD-P-1 XD-P-2	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	
Frequency Range Standard	45Hz - 65Hz Standard	
Operating Range SXD-V, XD-V & XD-P XD-I and XD-R	0 - 120% nominal FS Amp 0 - 100% nominal FS Amp	
Overload for 2 seconds Continuous	XD TBC TBC	SXD x 20 I _n min x 2 I _n min
Output SXD-V5 & XD-V5 XD-I420 XD-R420 XD-P	0 - 5V dc max ...V 4 - 20 mA max ...mA 4 - 20 mA max ...mA Volt -free contact	
Response Time	Less than 1 sec	
Accuracy -V, -I & -R Models -P Models	Better than Class 1 EN 60688 Equip to Class 1 EN 60253-11 and BS DD 8431	
Crest Factor XD-RXD Others	TBC YBC	

Output Burden SXD-V5 & XD-V5 XD-I420 & XD-R420	100k Ω min 250 Ω nominal, 600 Ω max
Pulse Output XD-P Rating Calibration	Isolated from dc supply, 50V max 50V ac or dc and 100mA max 230V at PF=1 1 ϕ or 3 ϕ , user selectable 100 or 1000 pulses/kWh
Aux Supply SXD-V5 & XD-V5 XD-I420 & XD-R420 XD-P	None Loop 24Vdc (16 - 36V) 24Vdc (16 - 36V) at 10mA max
Max Cable Diameter XD-1 Models XD-0, -2 & -3 Models SXD Models	10mm 19mm 16mm
Isolation Input to Output	4kV 50Hz 1 sec test
XD Dimensions	95 x 52 x 32 mm 99 mm above & 52 mm along rail
SXD Dimensions	51 x 45 x 37 mm 16mm Cable Aperture
Environmental Operating Temp Range Storage Temp Range Humidity Protection Category	-10°C to + 65°C -40°C to + 85°C < 95% non-condensing IP50
XD Mounting Plate DIN Rail	35 x 38 mm Fixing Centres TS35 DIN Rail (Clips supplied)