

XD Current Transducers

The easiest and simplest devices for measuring current

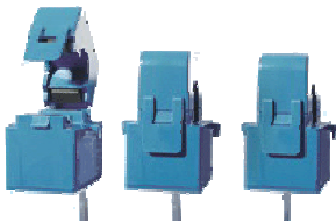


**XD
Ring Series**

- 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

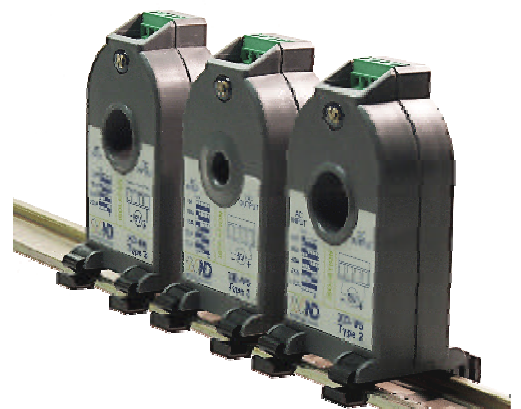
ON / OFF and failure sensing

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 retro-fit — 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
XD-V5-1	XD-I-420-1	5, 10, 15, 20, 25 or 30 [*] A
XD-V5-2	XD-I420-2	15 [*] , 30, 45, 60, 75 or 100A
XD-V5-3	XD-I420-3	50 [*] , 100, 150, 200, 250 or 300 [*] A
XD-R420-0		100, 200, 500, 600 or 1000mA
XD-R420-1		5, 10, 15, 20, 25 or 30 A
XD-R420-2		20, 40, 60, 80 or 100A
XD-R420-3		50, 100, 150, 200, 250 or 300A
XD-P-1		7.5, 15, 22.5 or 30A
XD-P-2		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 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 Equiv 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 1f or 3f, 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)