

# FOXTAM ELECTRICAL MEASUREMENT TRANSDUCERS

PRODUCT  
GROUP  
**GG**

## GENERAL SPECIFICATIONS & DIMENSIONS

### ■ OUTPUT

Response time:	<400mSec
Warm up time:	<15 mins
Output ripple:	1% peak full scale
Long term drift:	+/- 0.25% per year non cumulative
Maximum load:	0-1mA 10 KOhm max 0-2.5mA 6 KOhm max 0-5mA 3 KOhm max 0-10mA 1.5 KOhm max 0-20mA & 4-20mA 750 Ohm max
Adjustment:	Self powered voltage & current transducers have an adjustable span only All other transducers have an adjustable zero & span

### ■ AUXILIARY SUPPLY

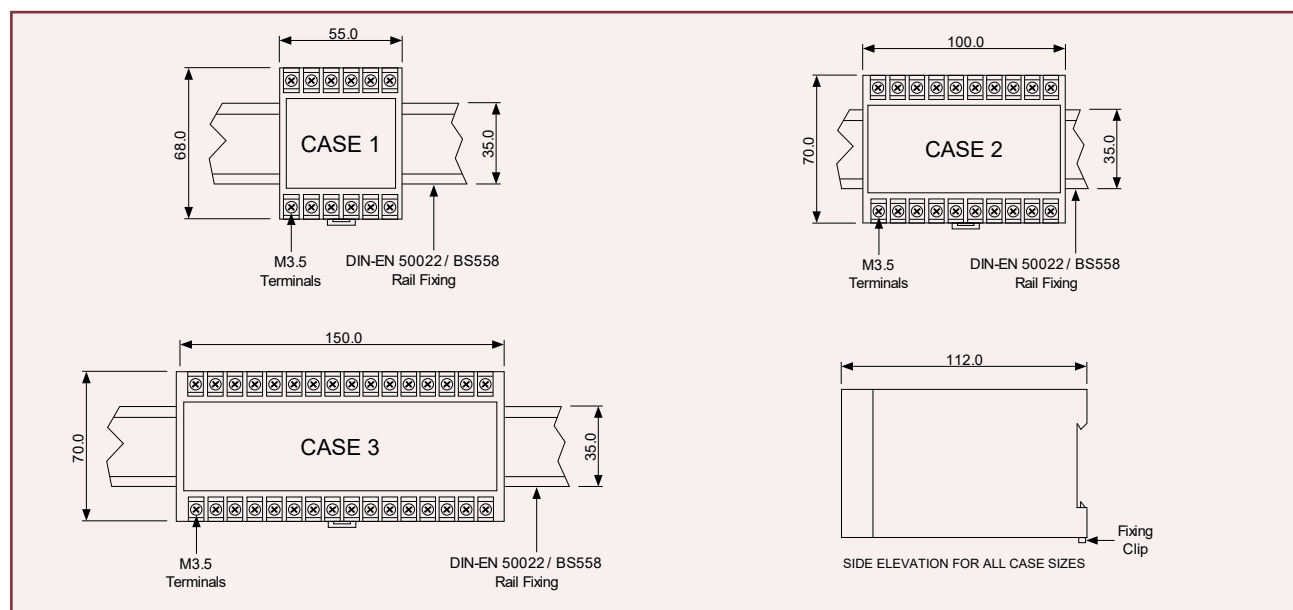
AC:	24 / 110 / 230 / 415V others on request
DC:	24 / 48 / 110V
Tolerance:	+/- 20%
Consumption:	4VA / W (combined Watt / VAr transducers 7VA / W)

### ■ EMC COMPLIANCE

Directive 89/36/EEC: Electrostatic discharge IEC801.2 (8KV)  
Electromagnetic fields IEC801.3 level 3  
Fast transient bursts IEC801.4 level 4  
Surge withstand IEC255-5

### ■ ENCLOSURE

Material:	Grey ABS plastic with finger proof terminal covers
Isolation:	4KV rms 50Hz for 1 min (to IEC414) between input / output / case / auxiliary supply 1KV DC / 600VAC between outputs on combined Watt / VAr transducers
Mounting:	35mm Din rail (DIN-EN 50022)
CE Marked:	Yes



**See individual transducer data sheets for unit specific specification details**

# DC VOLTAGE TRANSDUCERS

**TYPE: FOX.TR.DU**



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## DESCRIPTION

Foxtam DC voltage transducers can measure DC voltages directly up to 1000VDC. Specific 0-50mV, 60mV, 75mV are available for use directly with DC current shunts. The transducer converts the input signal to either a DC mA or DC voltage analogue signal output, directly proportional to the input. All DC voltage transducer require an auxiliary supply voltage. The 4KV isolated output signals can be utilised for many applications and can be fed into analogue meters, digital meters, PLC's or BMS systems.

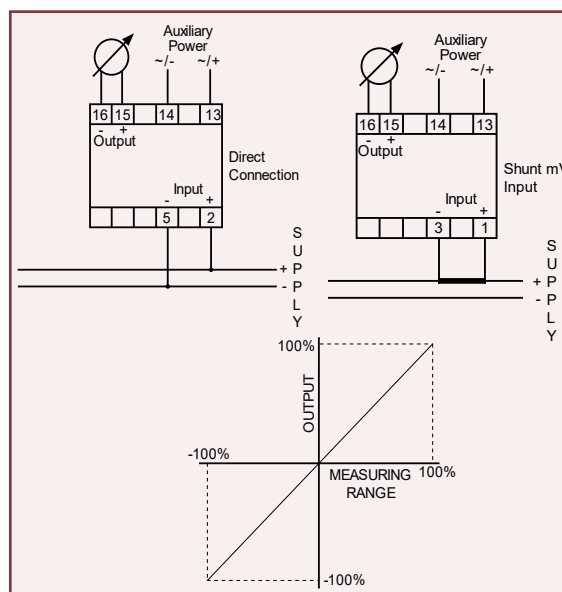
Transducer types include:-

**FOX.TR.DU.U** – Uni-polar output for example 4-20mA or 0-10VDC.

**FOX.TR.DU.B** – Bi-polar transducers which are particularly applicable for applications involving the control of DC motors when reversing polarity to control direction of motion, outputs for example can be -10VDC to 0 to +10VDC or 4-12-20mA.

## SPECIFIC SPECIFICATIONS

<b>Accuracy:</b>	Class 0.25
<b>Input voltage:</b>	0-20mV...1000V direct
<b>Overload:</b>	1.2 x $U_n$ continuous 1.5 x $U_n$ for 1 sec
<b>Working range:</b>	0-120% $I_n$
<b>Input Burden:</b>	<0.2VA
<b>Case size:</b>	1



## ORDERING INFORMATION

TYPE	INPUT RANGE	OUTPUT UNI	OUTPUT BI	AUX SUPPLY
FOX.TR.DU.U / Uni-polar	0-50mVDC	0-1mA	+/-1mA	24VAC
FOX.TR.DU.B / Bi-polar	0-60mVDC	0-2.5mA	+/-2.5mA	63VAC
	0-75mVDC	0-5mA	+/-5mA	110VAC
	0-20mV....1000VDC*	0-10mA	+/-10mA	230VAC
		0-20mA	+/-20mA	415VAC
		4-20mA	4-12-20mA**	24VDC
		0-1VDC	+/-1VDC	48VDC
		0-5VDC	+/-5VDC	110VDC
		0-10VDC	+/-10VDC	

\*Specify exact voltage input, above 600VDC a price surcharge is applicable.

\*\*Also possible on bi-polar units to have as an example 0-5-10VDC output