

FOXTAM DIN 48, 72, 96mm ANALOGUE METERS



■ GENERAL INTRODUCTION

The Foxtam Controls range of Din standard analogue meters are available as 48mm, 72mm and 96mm. The moving iron ammeters are fitted with the British standard x6 overload scale. However x5, x2 and no overload options are also readily available. The range, as standard, are supplied with 90° movements, 240° movements are also available to order. Please contact the sales office for assistance.

The majority of meters are supplied with terminal covers as standard.



■ TECHNICAL SPECIFICATIONS

- Standards:** DIN43700, IEC51 and BS89
- Sizes:** Din 48mm, 72mm and 96mm
- Types:** AC Moving Iron & DC Moving Coil
- Protection:** IP52 (IP65 on request)
- Insulation:** 2kV for 1min
- Temperature:** Operating -25°C to +40°C
- Construction:** Pivot and jewel movement

■ MOVING IRON AC AMMETERS

- Types:** D48SD, D72SD, D96SD
- Accuracy:** Class 1.5
- Burden:** 1A & 5A movements 0.7VA, 6A to 30A 1.2VA, 40A and above 2.4VA
- Ranges:** 0.5/1/1.5/2/2.5/4/5/6/10/15/20/25/30/40/50/60/80/100Amps (D48SD only up to 40A) 1A & 5A movements also used as CT input i.e. D72SD/CT5 Scaled: 0-100A x6
- Overscales:** British standard x6. On request x2, x5 or no overscale



■ MOVING IRON AC VOLTMETERS

- Types:** D48SD, D72SD, D96SD
- Accuracy:** Class 1.5
- Burden:** Max 6VA
- Ranges:** 150/300/500VAC (others on request)



■ FREQUENCY METERS

- Types:** D48HZ, D72HZ, D96HZ
- Accuracy:** Class 1
- Burden:** 6mA
- Ranges:** 45-55Hz, 45-65Hz, 55-65Hz, 360-440Hz (45-65Hz standard range) Supply voltage must be specified 110/240/380/400/415/440V



■ MOVING COIL DC AMMETERS

- Types:** D48MC, D72MC, D96MC
- Accuracy:** Class 1.5
- Burden:** 80mV to 150mV volt drop depending on input current
- Ranges:** Any input between 50 to 800uA and 1 to 800mA Also 1/1.5/2/2.5/4/5/6/10/15/20/25/30/40/50A (D48MC only up to 30A) Dedicated 4-20mA version
- Scales:** Special scales made as requested



MOVING COIL DC VOLTMETERS

Types:	D48MC, D72MC, D96MC
Accuracy:	Class 1.5
Burden:	Approx 1mA
Ranges:	50mV to 1000V specify range required **D48MC up to 800V Shunt input ranges available as standard i.e. 60mV Special scales made as required
Scales:	



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POWER FACTOR METER

Types:	D96PF (Self contained)
Accuracy:	Class 1.5
Burden:	Current inputs 0.5VA, voltage inputs 2VA
Inputs:	Current via 1Amp or 5Amp CT input Voltage direct 63VAC to 500VAC
System:	3P3W Balanced
Ranges:	CAP 0.5 to 1 to IND 0.5



WATT METERS

Types:	D96WA
Accuracy:	Class 1.5
Burden:	Current inputs 0.5VA, voltage inputs 2VA
Inputs:	Current via 1Amp or 5Amp CT input Voltage direct 63VAC to 500VAC
Systems:	Single phase, 3P3W Balanced, 3P4W Balanced 3P3W Unbalanced, 3P4W Unbalanced



ANALOGUE METER OPTIONS

- Extra adjustable red pointer
- Coloured segments on scale
- Polycarbonate fronts
- External potentiometer adjustment (DC only)
- AC rectified movements
- Rubber terminal boots
- Red line on scale
- Tropical finish and sealed to IP65
- Heavily damped movements
- Centre zero movements (DC only)
- Terminal covers
- Special scales

PANEL CUT OUTS

Din 48mm: 45x45mm Din 72mm: 68x68mm Din 96mm: 92x92mm

PHASE SEQUENCE INDICATORS

Foxtam Controls Phase Sequence Indicators (P.S.I) are suitable for a range of applications to indicate both the presence of all three phases and the correct sequence of those phases.

Incorrect phase connection will often cause serious damage to the motors of compressors, pumps, gen-sets, heating and ventilation equipment. Mobile generators, remote installations and shore to ship supplies are most vulnerable to such hazards and are, therefore, ideal applications for the Foxtam range.

The absence of a phase is indicated by a neon to identify the missing phase. The presence of all three phases in the correct sequence is indicated by the white neon. Incorrect phase sequence is indicated by a red neon.

MODELS

FE48PSI 48mm square
FE72PSI 72mm square
FE96PSI 96mm square

TECHNICAL DATA

Ratings:	Voltage 180 - 500V Frequency 50/60Hz
Burden:	3VA maximum



■ FULLY IP65 SEALED DIN 72mm & 96mm ANALOGUE METERS, AS REQUIRED FOR WATER AUTHORITY MCC'S

■ FEATURES

- 72mm Ammeters & Voltmeters
- 96mm Ammeters & Voltmeters
- Fully front IP65 sealed
- Supplied with IP65 panel gasket
- Supplied with terminal cover
- Ammeters with ARP (Adjustable Red Pointer)
- Adjusters sealed with O-Rings
- Everything supplied as a kit



■ DESCRIPTION

Din 72mm & 96mm analogue meters that are genuinely IP65 sealed, both from the front and also sealed to the panel via a gasket. The front seal is achieved by sealing the glass into the plastic bezel, whilst the adjusters for the adjustable red pointer, along with the zero adjuster are fitted into the glass with o-ring seals.

Ammeters are stocked in Din 72mm (Din 96mm on request) direct connected 2 Amps, 3 Amps, 4 Amps, 5 Amps, 6 Amps, 8 Amps, 10 Amps, 15 Amps, 20 Amps and 25 Amps. Also stocked are 5 Amps movement meters driven from a 5 Amp secondary current transformer (1 Amp secondary on request) and a corresponding scale will be fitted to match the current transformers primary. All ammeters have x6 overload movements and are fitted with the adjustable red pointer as standard. (On Request these can be supplied without)

Voltmeters are stocked in both Din 72mm and 96mm 0-500VAC. As standard they are not supplied with the adjustable red pointer option. (ARP available on request if required).

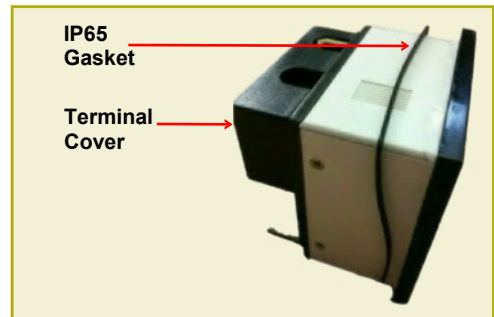
All meters are supplied as a kit which includes the IP65 panel gasket and a terminal cover.

■ ORDERING INFORMATION

TYPE	INPUT	RANGES			RED POINTER
D72/IP65	*CT1A	0.5A	4A	15A	** ARP
D96/IP65	*CT5A	1A	5A	20A	
	DR	1.5A	6A	25A	
	0-500V	2A	8A	30A	
		3A	10A	40A	

* Specify current input range

** Insert ARP if Adjustable Red Pointer is required



■ DIN 72mm & 96mm GLASS CASED HOUR COUNTERS

TYPES: R572/AC VOLTS & R5 77/DC VOLTS (DIN 72mm)
R596/AC VOLTS & R5 97/DC VOLTS (DIN 96mm)

■ FEATURES

- DIN 72mm or DIN 96mm
- Instrument case style
- Seven digits
- Optional reset versions
- Metal fixing clamp
- With operation indication

■ DESCRIPTION

Glass cased Din 72mm and Din 96mm seven digit hour run counters. These hour counters compliment and match Din standard analogue meters. The counters are supplied complete with a metal fixing bracket and push on terminations 6.3x0.8mm. Please see our Hour Counter section, page 149 for full specifications and ordering information.

