

RECORD Din

MOVING COIL INDICATORS



- Five standard sizes.
- Accuracy to $\pm 1\%$ (class 1).
- Long scale 240° presentation.
- Edgewise horizontal or vertical
- Dial markings to customer's requirements
- Strong construction.
- Robust "PREMIER" and "CLASSIC" pivot & jewel movements
- Conformance with DIN 43700

The Din concept was developed to standardise the range of instruments used in production of switchboards and control panels.

Because of **RECORD's** ability to respond to the special requirements of our customers the **RECORD** Din has been utilised in many other industrial applications including marine, production machinery, motor control systems and mosaic panels.

The Din long scale range utilises the 240° 'Premier' movement, and the edgewise utilises the 90° 'Classic' movement. These proven movement systems have been manufactured using the very best precision components and automated production facility. These factors give the movement system its inherent reliability, linearity and accuracy among Moving Coil Indicators.

Dials are marked to customer's requirements and can include coloured indices/lines/



bands, dual/multi scales and customer's name/logo etc.

Instruments are available for A.C. or D.C. applications. Electrical termination utilises screw fixings. Panel fixing is via simple screw clamps.

Optional Features

Internal Illumination: Long life filament lamps within the case illuminate the translucent dial. Illumination power either 12V D.C. or 24V D.C. as standard.

Full Scale Adjustment

An internally mounted potentiometer, accessible from the rear of the meter, allows the full scale to be up to $\pm 20\%$

Additional Accessories

To complete the control package **RECORD** can also supply current/voltage transformers, shunts or suitable transducers.

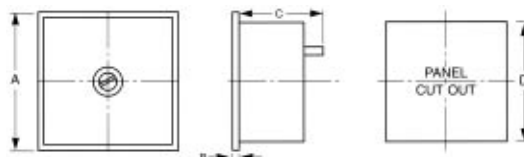
Manufactured to BS89/DIN 43700 under the control of the ISO 9001 Quality System.

Electrical Specifications

Type	D.C. Current		Full Scale Range For self-contained Instruments				A.C. Current		A.C. Volts	
	min	max	D.C. Volts		A.C. Current		min	max	min	max
48DA	0.2mA	500mA	50mV	400V	-	-	-	-	-	-
72DA	0.2mA	20A	50mV	600V	1mA	500mA	5V	600V	5V	600V
96DA	0.2mA	20A	50mV	600V	1mA	20A	5V	600V	5V	600V
144DA	0.2mA	20A	50mV	600V	1mA	20A	5V	600V	5V	600V
144C	0.2mA	20A	50mV	600V	1mA	20A	5V	600V	5V	600V

Accuracy to BS 89 D.C. Ranges $\pm 1.0\%$ (Class 1) mV & A.C. Ranges $\pm 1.5\%$ (Class 1.5)
 For D.C. current ranges above those stated an external shunt could be supplied.
 For A.C. current ranges above those stated a current transformer could be supplied.

Mechanical Specs & Dimensions



Type	Dimensions (units)					Options			
	A (mm)	B max (mm)	C max (mm)	D min (mm)	Scale Length* (mm)	Weight (Approx) (Kgs)	Pot Adjuster	Internal Illumination	
48DA	48SQ	5	66	45.5SQ	90	0.2	-	-	
72DA	72SQ	5	60	68.5SQ	120	0.3	Yes	-	
96DA	96SQ	5	69	92.5SQ	165	0.4	Yes	Yes	
144DA	144SQ	7	70	138SQ	245	0.75	Yes	Yes	
144C	114 x 48	9	192	138 x 45	125	0.5	-	-	

*Scale length for long scale indicator is over 240°.
 *Scale length for edgewise indicator (144C) is over 48°

Sealed to IP 54 with front zero adjuster on square range
 Operating temperature range -25 Deg. C to +50 Deg. C