CE

1.1.1.1 1800

1500

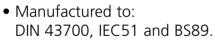
HOBUT

1200

100

DESCRIPTION

Available with moving iron or moving coil movements for a.c. or d.c. use, these DIN panel meters have been supplied worldwide and are recognised for their quality and value. Standard scales or customised dials can be offered



- 48mm, 72mm and 96mm sizes.
- a.c. or d.c. use.
- Interchangeable dials (72mm & 96mm).
- Rugged pivot and jewel movement.
- Ammeters, Voltmeters, Frequency Meters, Power Factor Indicators, Wattmeters, Elapsed Time Indicators and Maximum Demand Indicators.
- Optional red secondary pointer and terminal cover.
- Special customised dials.

Howard Butler Limited is one of the largest independent UK manufacturers of panel meters and associated products.

HOBUT

100

With over 80 years experience in the industry HOBUT products have built a reputation for high quality and modern design at competitive prices.

CONNECTION DIAGRAMS

VOLTAGE TRANSFORMER OPERATED

CURRENT TRANSFORMER OPERATED

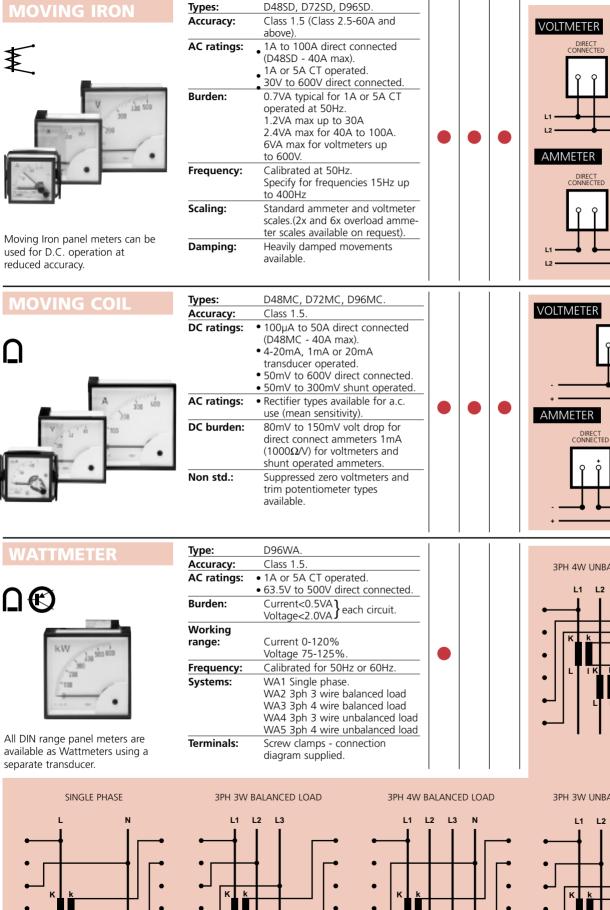
SHUNT OPERATED

(L)

(N)

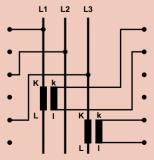
(N)

DIN DIN DIN 96 72 48



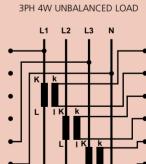


3PH 3W UNBALANCED LOAD



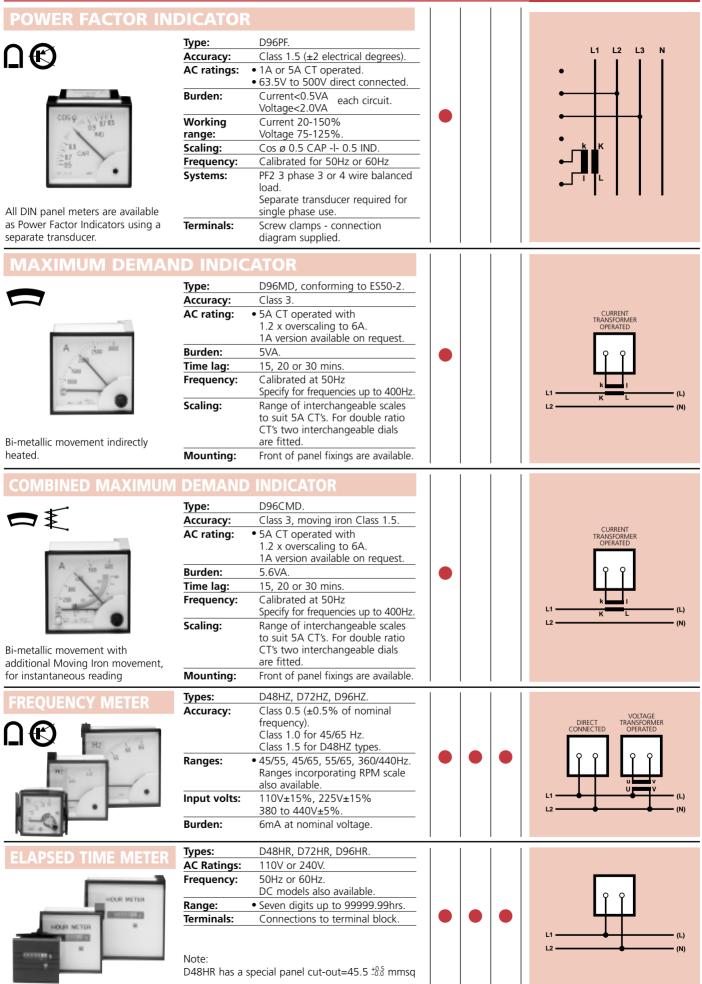
used for D.C. operation at





DIN DIN DIN 96 72 48

CONNECTION DIAGRAMS



HOBUT

TECHNICAL SPECIFICATION

Standards	IEC 51, BS 89.					
Enclosure:	DIN 43700. Flame retardant: base material UL94V1, case & terminal cover material UL94V0. Scale marking DIN 43802 Protection IP52: IP54 can be supplied.					
Overload:	CURRENT - 1.2 x rating for 2hrs. - 10 x rating for 5 secs.					
	VOLTAGE - 1.2 x rating for 2hrs. - 2 x rating for 5 secs.					
Insulation test:	2kV 50Hz for 1min.					
Temperature:	Calibrated at 23°c. Suitable for use at -25°c to +40°c.					
Available extras:	Adjustable red secondary pointer. Terminal cover. Special scale. Polycarbonate window. 6.4mm "Faston" terminal tag (voltmeters & ammeters to 5A).					
Other DIN products:	Our illustrations and technical specifications apply to meters with 90° scale arcs. Instruments with 240° scale arcs are also available.					

Data sheets on the following HOBUT product ranges are available on request:

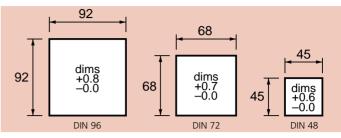


- Digital panel meters.
- Current Transformers.
- Shunts.
- Power transducers.Protection relays.
- Battery charger indicators.
- Thermal cut-outs.

New HOBUT products include:

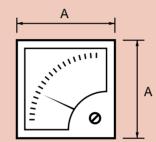
- Pro-Din panel meters.
- 240° panel meters.
- kWh meters.
- Multi-function meters.
- Protective current transformers.

PANEL CUT-OUTS (All dimensions mm)



DIN 48 can be slot mounted using the standard fixing clip. DIN 72 & DIN 96 can be supplied with special fixing clips for slot mounting. Slot dimensions available on request.

DIMENSIONS (All dimensions mm)



DIN48 (M4 screw clamps)

DIN48 (M6 stud terminals)

DIN72 (M4 screw clamps)

Ammeters up to 5A & Voltmete

Ammeters 6A to 40A

(All dimensions mm)										
B C →										
A					D					
А	В	С	D	Е	F					
48	5	C 43	44.8	10	-					
48	5	43	44.8	21	-					
72	5.5	38.5	66	10	-					
72	5.5	38.5	66	19	_					

Ammeters up to 5A & Voltmeters		5.5	50.5	00			
DIN72 (M6 stud terminals) Ammeters 6A to 50A	72	5.5	38.5	66	19	-	
DIN72 (M8 stud terminals) Ammeters 60A to 100A	72	5.5	38.5	66	22	-	
DIN96 (M4 screw clamps) Ammeters up to 5A & Voltmeters	96	5.5	38.5	90	10	20	
DIN96 (M6 stud terminals) Ammeters 6A to 50A	96	5.5	38.5	90	19	20	
DIN96 (M8 stud terminals) Ammeters 60A to 100A	96	5.5	38.5	90	22	20	
DIN96 Watt-meter	96	5.5	123	90	13	-	
DIN96 Power Factor Indicator	96	5.5	123	90	13	-	
DIN96 Max. Demand Indicator (M4 screw clamps)	96	5.5	58	90	10	20	
DIN96 Combined M.D.I. (M4 screw clamps)	96	5.5	58	90	10	20	
Note: If terminal covers are fitted as an optional extra,							

add 23mm to dimension 'C' for DIN72 & DIN96 meters, and 25mm to dimension 'C' for DIN48 meters.

Our policy is one of continuous development and therefore specifications may change without notice.



HOWARD BUTLER LTD

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