



DH 96 Series Panel Mounted Meters

General features:

- Programmable digital instrumentation
- Measures in true effective values TRMS
- Voltage or current Measuring in the same equipment
- Voltmeter, ammeter, wattmeter, varmeter, volt / amp meter, phase meter, THD indicator, process indicators, process control, etc.
- High performance Measuring circuit:
 - Accuracy (class 0.1, 0.2, 0.5)
 - Resolution up to 13 bits
- Wide range of programmable and multi-scale digital instruments for Measuring in AC and DC.
- Optional expansion cards:
 - Relays
 - Analogue outputs (4...20 mA, etc.)
 - Communications (RS-232, RS-485, with MODBUS RTU protocol)
- Auxiliary power supplies in AC and DC.
- SOFTWARE: **EASYCOM, POWERSTUDIO**
- Network connection with other instruments RS-485
- Specific instruments for process control (galvanising baths, tencoder controllers, battery charge analyzers, solar energy, etc.)
- Designed according to regulations
- High protection grade (up to IP 65 with accessory)
- Quality control system ISO 9001



Accuracy:

- DH96A – 0.5 % ±1 dig 10 bits
- DH96C – 0.2 % ±1dig 12 bits + sign
- DH96P – 0.2 % ±1dig 12 bits + sign
- DH96CPM – 0.1 % ±1dig (V, A) 13 bits
- DH96FT – 0.005 % ±1 dig
- DH96WG – 0.5 % ±1 dig 10 bits
- DH96AV – 0.1 % ±1 dig (V, A) 13 bits
- DH96BG – 0.1 % ±1 dig (V, A) 13 bits
- DH96TMP – 0.1 % ±1 dig (V, A) 16 bits
- DH96SG – 0.1 % ±1 dig (V, A) 16 bits

DH 96 Models

	Measuring	Units	Accuracy	Range	Type	Code
Ammeter or Voltmeter	D.C.	A or V	0,2 % ± 1 dig	200 mA or 50, 100, 200 V	DH 96C	M20411
	A.C.		0,5 % ± 1 dig	.../5 A or 150, 300, 600 V	DH 96A	M20412
				... 10 A		M20413
				.../5 A motor start up 5 I _n for 10 s		M20414
Ammeter and Voltmeter	D.C.	A and V	0,2 % ± 1 dig	Programmable	DH 96AV	M2041C
Earth leakage indicator	A.C.	mA	0,5 % ± 1 dig	40 mA	DH 96WG	M2041B
				Programmable to measure residual current		M2041A
Measuring station	D.C.	V, A, kW, kWh	0,2 % ± 1 dig	Programmable	DH 96CPM	M20419
Universal process indicator	D.C.	-	0,2 % ± 1 dig	20 mA, 1 mA 120 mV, 500 mV, 10 V	DH 96P	M20415
Galvanising baths	D.C.	A·h, A·min	0,2 % ± 1 dig	Programmable	DH 96BG	M20416
Frequency meters and tachometer	-	Hz, r/min.	-	0,1 ... 20 000 Hz	DH 96FT	M20417
Chronometer and pulse meter	-	s, min, h, No. of pulses	-	Programmable to measure time and pulses	DH 96CT	M20418
Temperature	-	°C	0,2 % ± 1 dig	RTD and thermopolar probe	DH 96TMP	M2041E
Load cell indicator	-	g	0,2 % ± 1 dig	Market standard	DH 96SG	M2041F

Power supply circuit 115 / 230 V a.c. (+20 % / -15 %)

Consumption 4 V·A (without expansion card)

7 V·A (with expansion card)

Frequency 45 ... 65 Hz

Measuring circuit

Over voltage (permanent / for 10 s) 1,2 U_n / 2 U_n

Overloads (permanent / for 10 s) 1,2 I_n / 5 I_n

Measuring margin 2 ... 120 %

No. of conversions per cycle 32

Display 7 x 14 mm segments, red

Display refresh < 1 s < 500 ms < 500 ms < 100 ms < 1 s < 500 ms

Decimal point Programmable

Range excess indicator " - - - - "

Insulation Between input, Measuring and optional output card

Test voltage 3 kV, 50 Hz, 1 min

Impulse test 4 kV (1,2 / 50 μ s)

Environmental conditions

Storage temperature - 40 °C / +70 °C

Operating temperature -10 °C / +65 °C

Assembly features

Casing material ABS V0, grey anthracite

Protection grade Casing and terminals: IP 20 / Front: IP 54

DH 96 Expansion Cards

DH 96 MODULE COMPATIBILITY												
TYPES OF MODULE	Code	C	A	AV	WG	CPM	P	BG	FT	CT	TMP	SG
2 relays	M20421	*	*	*	*	*	*	*	*	*	*	*
4 relays	M20422	*	*	*	*	*	*	*	*	*	*	*
2 relays + RS-485 or RS-232	M20423	*	*	*	*	*	*	*	*	*	*	*
4 relays + RS-485 or RS-232	M20424	*	*	*	*	*	*	*	*	*	*	*
analogue output 0 / 4...20 mA	M20425	*	*	*	*	*	*	*	*	*	*	*
analogue output 0 / 2...10 V	M20426	*	*	*	*	*	*	*	*	*	*	*
RS-232	M20427	*	*	*	*	*	*	*	*	*	*	*
RS-485	M20428	*	*	*	*	*	*	*	*	*	*	*
Analogue output 0 / 4...20 mA + 2 relays	M20429	*	*	*	*	*	*	*	*	*	*	*
auxiliary power supply compatible with all except relays + communications	M2042A	*	*	*	*	*	*	*	*	*	*	*
ETHERNET TCP / IP	M2042B	*	*	*	*	*	*	*	*	*	*	*

Dimensions

