DHB Series

Panel digital instruments

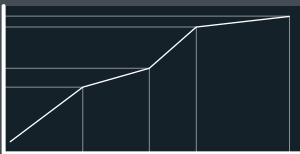Indication of relay status with LED

IP 65 high protection degree

Auxiliary power supply Vac / Vdc

Compact units, reduced size with many features

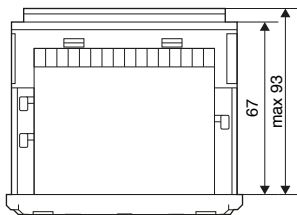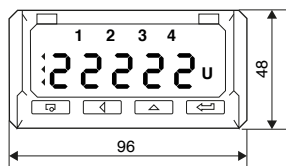Alarms with change in colour of the display depending on the value shown

Non-linear equations with 21 reference points

Technical features

Protection	Protection degree	IP 65 (front panel) IP 10 (rear)
Environmental conditions	Temperature	-25...+55 °C
	Relative humidity	5...95% (without condensation)
	Maximum altitude	2,000 m
Safety	Designed for CAT III 300/520 Vac installations, in accordance with **EN 61010**. Double-insulated electric shock protection, class II	
Standards	**EN 61000-6-2, EN 61000-6-4**	

Dimensions

References

Variables	Outputs	Power supply	Type	Code
Impulses, frequency, circular speed, periods, time, *encoder*	1 relays	85... 253 V$_{ac/dc}$	DHB-102	**M22021**
		20...40 V$_{ac/dc}$		**M22021001000**
	3 relays + 1 analogue + RS-485	85... 253 V$_{ac/dc}$	DHB-124	**M22022**
		20...40 V$_{ac/dc}$		**M2202210000**
Voltmeter or ammeter ± 100...500 V$_{dc}$ ± 1...5 A$_{dc.}$	2 relays	85... 253 V$_{ac/dc}$	DHB-202	**M22023**
		20...40 V$_{ac}$ 20...60 V$_{dc}$		**M220230020000**
	4 relays + 1 analogue + RS-485	85... 253 V$_{ac/dc}$	DHB-224	**M22024**
		20...40 V$_{ac}$ 20...60 V$_{dc}$		**M220240020000**
Single-phase multimeter ± 100/400 V$_{ac}$ ± 1/5 A$_{ac}$	2 relays	85... 253 V$_{ac/dc}$	DHB-302	**M22025**
		20...40 V$_{ac/dc}$		**M220250010000**
	4 relays + 1 analogue + RS-485	85... 253 V$_{ac/dc}$	DHB-324	**M22026**
		20...40 V$_{ac/dc}$		**M220260010000**
Pt100/500/1000 Thermocouple J,K,N,E,R,S ± 20 mA, ± 10 V, 60 mV	2 relays	85... 253 V$_{ac/dc}$	DHB-402	**M22027**
		20...40 V$_{ac}$ 20...60 V$_{dc}$		**M220270020000**
	4 relays + 1 analogue + RS-485	85... 253 V$_{ac/dc}$	DHB-424	**M22028**
		20...40 V$_{ac}$ 20...60 V$_{dc}$		**M220280020000**

DHB series

Digital instruments

Versatile and industrial

DHB Series

Panel digital instruments which display on-screen, depending on the model, the value of a measured electrical variable or the proportional value of a process signal. Designed for supervision, regulation and control, through the use of analogue outputs and relays, integrated in the unit.

The **DHB** series enables full configuration of scales, transformation ratio, alarm setpoints, changes in colour of the display, communications, etc. Depending on the model, the unit shows the electrical parameters of a single-phase installation, such as voltage, current, frequency, power, cos φ, etc. In direct current systems, the unit is able to measure voltage, current, impulses, frequency, circular speed, periods, time, temperature and other variables related to industrial processes. Alternating current models calculate the true root mean square measure (TRMS).

DHB-102/124

Impulse, frequency and time meter

» Measurement of number of impulses, frequency, circular
  speed, working time.
» 2 impulse meters,
  compatible with market encoders.
» Measurement of instantaneous values
  and incremental variables meter.
» 4 outputs* available for alarms and LED indication.
» Analogue output of 0(4)...20 mA or 0...10 V.*
» Modbus/RS-485 communications.*

DHB-202/224

DC voltmeter or ammeter

» Current or voltage measurement (1 or 5 Ad.c. / 100 or 500 Vd.c.
» Storage of maximum and minimum values
  of all parameters measured.
» 4 outputs* available for alarm with LED indication.
» Analogue output of 0(4)...20 mA or 0...10 V.*
» Modbus/RS-485 communications.*

* Models with **DHB x24** communication

DHB-302/324

AC single-phase multimeter

» Measurement of electrical parameters
  of a single-phase network. (1 or 5 Aa.c. / 100 or 400 Va.c.)
» Storage of maximum and minimum values
  of all parameters measured.
» 4 outputs* available for alarms and LED indication.
» Analogue output of 0(4)...20 mA or 0...10 V.*
» Modbus/RS-485 communications.*

DHB-402/424

Indicator for industrial process, temperature and resistor signals

» Measurement of process, temperature and resistor signal.
  (0...10 V, 0/4...20 mA, 0...60 mV)
» Stores max. and min. values of the parameters measured.
» Auxiliary power supply for transducers.
» The unit enables the parameterisation of the output with
  up to 21 straight points, similar to a non-linear output.
» 4 outputs* available for alarms and LED indication.
» Analogue output of 0/4...20 mA or 0...10 V.*
» Modbus/RS-485 communications.*