DHB-124

DHB-124, Digital indicator

Code: M22022. CONSULTAR DISPONIBILIDAD

> Communications: RS-485
> N° relays: 3
> Analog output: 1 (0/4...20 mA) |1(0...10V)
> Measure: imp., Hz.
> Paramètre: Impulses, frequency, circular speed, periods, worktime, encoder position
> Mounting: Pannel

Description

Panel mounted digital devices designed to display on-screen the value of a electrical variable measured or proportional value of a process signal, depending on the model. Essential for regulation purposes, programming the analogue output available in some models, and for control purposes, if the relay outputs are used as alarms.
DHB units are fully programmable and the following can be programmed: scale, transformation ratios, alarm setpoints to activate relays, communications, colour of the numbers displayed on screen, etc. Depending on the model, you can measure the electrical parameters of a single-phase installation such as voltage, current, frequency, power, cos φ, etc., the direct voltage or current of an installation, impulses, frequency, circular speed, periods, time, temperature and also other voltage and current process variables. AC models calculate the true root mean square measure (TRMS).

The models include the following common features:

- IP 65 front panel
- High measurement accuracy
- Programmable measurement input
- Delay and latching alarms
- 24 Vdc output for supply external transducers (DHB 1xx and DHB 4xx models)
- Galvanic insulation between external circuits
- Adjustment of non-linear equations with 21 straight points (2 in the DHB 3xx model).
- Change in colour of the display depending on the value shown.
- Maximum and minimum values
- Clock with current time
- Self-configurable decimal point
- Compatible with Power Studio (model with communications)
- Installation on 96 x 48 mm panel

Application

These digital instruments have multiple applications. Thanks to their very bright 5-digit and 3-colour screen, you can simply view a numerical value and an alarm or prealarm status of a measured variable. Depending on the model selected, displayed on-screen are the electrical parameters of a single-phase installation as a power analyzer (voltage, current, power, frequency, etc.).
Other models allow to visualize the value of an analogue signal, show impulses received through an input, temperature, time, circular speed and many other variables that depends on the device and the configuration. The indicators also let you operate any external element, using the panel unit outputs as alarms depending on the value of a variable or as a transducer of the measured variable to an analogue signal, which is subsequently sent to another unit, such as a PLC.
Apart from displaying the values, units with communications also allow you to send data via the RS-485 communication bus for software or PLC integration.

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Specifications

AC power supply

Installation category	CAT III 300V
Consumption	1,2...9 VA
Frequency	40...400 Hz
Nominal voltage	85...253 Vc.a.

DC power supply

Installation category	CAT III 300 V
Consumption	1,2...6 W
Nominal voltage	85...253 Vdc

Mechanical characteristics

Size (mm) width x height x depth	96 x 48 x 93 (mm)
Envelope	Self-extinguishing V0 plastic
Weight (kg)	0,3

Environmental characteristics

Protection class	IP 65 (Front), IP 10 (rear)
Relative humidity (without condensation)	25...95 %
Storage temperature	-33...+70 °C
Working temperature	-25...+55 °C

Standards

Electrical safety, Maximum height (m)	2000
Standards	UNE EN 61000-6-2, UNE EN 61000-6-4, UNE EN 61010-1

User interface

LED	7
Keyboard	4 keys
Display type	7 segments (5 digits) LED

Analogue outputs

Current mode, nominal range	0...20 mA or 4...20 mA
Current mode: minimum load resistance	≤ 500Ω
Voltage mode, minimum load resistance	≥ 500Ω
Voltage mode: nominal output range	0...10 Vdc

Digital relay outputs

Maximum current	0,5 A

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Maximum open contact voltage	250 Vac
Electrical life	1x10^{5}ciclos (250 Vc.a./5 A)
Mechanical life	1x10^6 cycles
Maximum switching capacity	1500 W o 1250 VA

Measurement accuracy

Frequency measurement	0,01

Display ranges

Run time meter	0 ... 99999 h
Encoder	-19999 ... 99999
Frequency	<10 kHz : 0,05...99999 Hz / >10 kHz : 1...99999 Hz
Current time	00:00 ... 23:59
IN1/IN2 pulse meters	-19999...99999
Time period	<10 s (0,0001 ... 11s) / >10 s (0,0001 ... 3600s)
Rotation speed meter	0,05...99999 rpm

Open collector output

Type	NPN
Voltage	30 Vc.c. / 30 mA

External transducer power supply output

Voltage / Current	24 Vc.c. / 30 mA

Input signal

Voltage	5 ... 36 Vc.c.

Input types

Encoder (maximum frequency)	10 kHz
Frequency	<10 kHz : 100 kHz / >10kHz: 1MHz
Maximum time frequency	100 kHz
Maximum pulse input frequency IN1/IN2	10 kHz / 8 kHz
Maximum rotation speed frequency	100 kHz

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Dimensions

Connections