DHB-124

DHB-124, Instrumentation numérique : Compteur d'impulsions, fréquence et temps

Code: M22022. **DESCATALOGADO**

> Communications: RS-485
> N° relais: 3
> Sortie analogique: 1 (0/4...20 mA) |1(0...10V)
> Mesure: imp., Hz.
> Parameters: Impulsions, fréquence, vitesse circulaire, périodes, temps, encoder
> Montage: Panneau

La 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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Spécifications

Alimentation en courant alternatif

Catégorie d'installation	CAT III 300V
Consommation	1,2...9 VA
Fréquence	40...400 Hz
Tension nominale	85...253 Vc.a.

Alimentation en courant continu

Catégorie d'installation	CAT III 300 V
Consommation	1,2...6 W
Tension nominale	85...253 Vcc

Caractéristiques mécaniques

Taille (mm) larg. x haut. x prof.	96 x 48 x 93 (mm)
Boîtier	Plastique V0 auto-extinguible
Poids (kg)	0,3

Caractéristiques environnementales

Degré de protection	IP 65 (avant), IP 10 (arrière)
Humidité relative (sans condensation)	25...95 %
Température de stockage	-33...+70 °C
Température de travail	-25...+55 °C

Règlementation

Sécurité électrique, Altitude maximale (m)	2000
Règlementation	UNE EN 61000-6-2, UNE EN 61000-6-4, UNE EN 61010-1

Interface utilisateur

LED	7
Clavier	4 clés
Type d'affichage	7 segments (5 chiffres) LED

Sorties analogiques

Mode courant, plage nominale	0...20 mA or 4...20 mA
Mode courant: résistance de charge minimale	≤ 500Ω
Mode tension, résistance de charge minimale	≥ 500Ω
Mode tension: plage de sortie nominale	0...10 Vcc

Sorties de relais numériques

Courant maximum	0,5 A

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Tension maximale des contacts ouverts	250 Vca
Durée de vie électrique	1x10^{5}ciclos (250 Vc.a./5 A)
Durée de vie mécanique	1x10^6 cycles
Puissance de commutation maximale	1500 W o 1250 VA

Précision de mesure

Mesure de fréquence	0,01

Plages d'indications

Compteur d'heures de travail	0 ... 99999 h
Codeur	-19999 ... 99999
Fréquence	<10 kHz : 0,05...99999 Hz / >10 kHz : 1...99999 Hz
Heure actuelle	00:00 ... 23:59
Compteur d'impulsions IN1 / IN2	-19999...99999
Durée	<10 s (0,0001 ... 11s) / >10 s (0,0001 ... 3600s)
Compteur de vitesse de rotation	0,05...99999 rpm

Sortie collecteur ouvert

Type	NPN
Tension	30 Vc.c. / 30 mA

Sortie de l'alimentation du transducteur externe

Tension / Courant	24 Vc.c. / 30 mA

Signal d'entrée

Tension	5 ... 36 Vc.c.

Types d'entrées

Codeur (fréquence maximale)	10 kHz
Fréquence	<10 kHz : 100 kHz / >10kHz: 1MHz
Fréquence maximale de la période	100 kHz
Fréquence maximale du nombre d'impulsions IN1 / IN2	10 kHz / 8 kHz
Fréquence maximale de la vitesse de rotation	100 kHz

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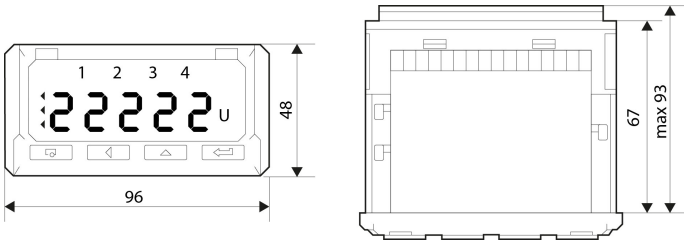
Dimensions



Connexions