



SERIE CRISTAL DELTA-H

FORMAT 48 X 48 mm TIME-METER 2 PRESETS
DISPLAY LCD BACKGROUND ILLUMINATION

DESCRIPTION

The DELTA-H is a time meter that includes all useful functions that allows controlling a process related to the time.

A general totalizer allows knowing the total time of operation.

A batch counter allows selecting the number of operations to be done.

At design time has been considered the concepts of **easy to use and easy to start with**.

Thus, a LCD display background-illuminated, with two lines, allows to show simultaneously the timer actual value and according to programmed, the preset value P1 or P2, general totalizer or batch counter.

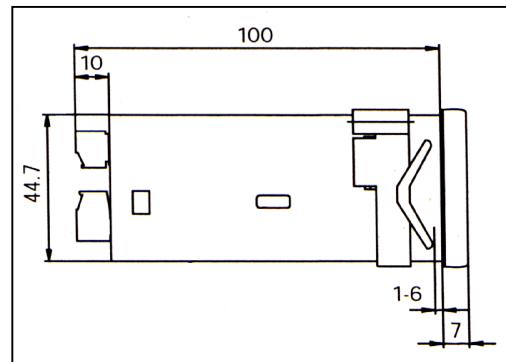
Modifying a parameter or a preset value is very easy thanks to the keyboard like a joystick, that allows selecting quickly the desired digit and to increment or to decrement it.

Also, by programming is possible to change the parameters that will be accessible to the user.

Compact, universal and easy to use, this time meter helps to solve in an optimal way the timing problems on the most applications.

Main characteristics

- Double display LCD, background illuminated, 6 digits.
- Display of: Count, Total, Batch, Offset or Presets
- 2 preset over 6 digits of main counter or 1 preset for main counter and 1 for Batch counter.
- Totalizer of 8 digits.
- Batch counter.
- 4 time ranges:
 - 9999 s 99/100 s 999 min 59 s 9/10 s
 - 9999 min 59 s 9999 h 59 m
- Adding o subtracting
- Function START, STOP.
- Control input NAMUR, NPN, PNP programmable.
- Relay output 260 V AC / 1 A / 150 VA or static 40 V / 25 mA
- Supply 24 V for detectors.
- Communications option RS485
- 3 programmable inputs.
- Function Print to print display value.
- Function Keylock or Pgmlock to lock the keyboard or to avoid programming access.



ORDER DESIGNATION

DELTA-H202	24 / 48 V AC	2 PR / RE	
DELTA-H002	115 / 230 V AC	2 PR / RE	
DELTA-H102	12-30 V DC	2 PR / RE	
DELTA-H204	24 / 48 V AC	2 PR / NPN	
DELTA-H004	115 / 230 V AC	2 PR / NPN	
DELTA-H104	12-30 V DC	2 PR / NPN	
DELTA-H242	24 / 48 V AC	2 PR / RE	RS485
DELTA-H042	115 / 230 V AC	2 PR / RE	RS485
DELTA-H142	12-30 V DC	2 PR / RE	RS485
DELTA-H244	24 / 48 V AC	2 PR / NPN	RS485
DELTA-H044	115 / 230 V AC	2 PR / NPN	RS485
DELTA-H144	12-30 V DC	2 PR / NPN	RS485

Electrical data

Power supply.....	24 or 48 V AC, 115 or 230 V AC ± 10%
	12 ... 30 V DC
Power consumption.....	5 VA, 4 W
Encoder supply	10 ... 26 V DC, 60 mA
Command input	5 ... 40 V
Data storage.....	>10 years (via EEPROM)

Ambient conditions

Ambient temperature	0 ... +50 °C
Storage temperature	-20 ... +70 °C
Humidity	Max 80%, non-condensing
Protection.....	Front IP 65 to DIN 40050
General rating.....	EN 61010 Part 1

- Protection class II
- Over voltage. Category II
- Contamination factor 2

Interference immunity.. EN 61000-6-2

Emitted interference..... EN 50081-2

Mechanical

Display.....	7-segments LCD two lines
Digits	1st line 7 mm, 2nd 4 mm
Measuring units	h, min, s
Range	0 a 999999 (6 digits)
Keypad.....	6 key
Front measures.....	48 x 48 mm
Fixing	Clamping frame
Connections.....	2 Plug-in screw terminals
Weight	mod. AC 260 g, mod. DC 140 g