



SERIE CRISTAL DELTA-F

FORMAT 48 X 48 mm TACHOMETER 2 PRESETS
DISPLAY LCD BACKGROUND ILLUMINATION

DESCRIPTION

The DELTA-F is a tachometer with format 48 x 48 mm, high performance. Specially designed to control rotation speed, lineal speed, rate, frequency, etc.

The measurement principle is based on measuring the input signal period, this principle eliminates the annoying calculations of base's time, being enough programming pulse number by unit of display to have the indication of the measured variable on the selected units.

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 tachometer actual value and according to programmed, the preset value P1 or P2 or general totalizer.

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.

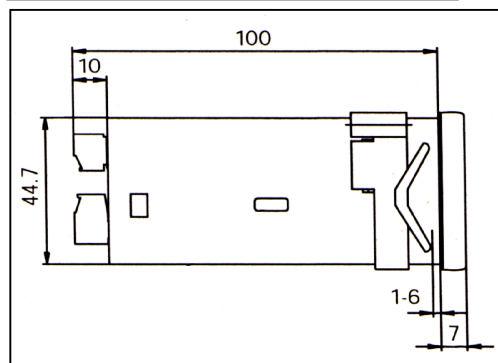
Also, by programming is possible to change the parameters that will be accessible to the user.

Main characteristics

- Double display LCD, background illuminated, 6 digits.
- Display of: Tachometer, Presets, Batch, Scale factor
- 2 preset over 6 digits.
- Batch counter 6 digits.
- Inputs NAMUR, NPN, PNP programmable.
- Pulse factor conversion from 0,0001 to 9999,99
- Relay output 260 V AC / 1 A / 150 VA or static 40 V / 25 mA
- 24 V encoder or detector excitation.
- Communication option RS485
- Display update programmable from 0.5 s to 60 s
- Time out tachometer programmable from 1 to 60 s
- Frequency max. for tachometer 40 kHz
- Frequency max. for batch counter 10 kHz
- 3 programmable inputs.
- Print command programmable on logical input.
- Hold function on tachometer and Batch.
- Function Keylock or Pgmlock to lock the keyboard or to avoid programming access.

ORDER DESIGNATION

DELTA-F202	24 / 48 V AC	2 PR / RE	
DELTA-F002	115 / 230 V AC	2 PR / RE	
DELTA-F102	12-30 V DC	2 PR / RE	
DELTA-F204	24 / 48 V AC	2 PR / NPN	
DELTA-F004	115 / 230 V AC	2 PR / NPN	
DELTA-F104	12-30 V DC	2 PR / NPN	
DELTA-F242	24 / 48 V AC	2 PR / RE	RS485
DELTA-F042	115 / 230 V AC	2 PR / RE	RS485
DELTA-F142	12-30 V DC	2 PR / RE	RS485
DELTA-F244	24 / 48 V AC	2 PR / NPN	RS485
DELTA-F044	115 / 230 V AC	2 PR / NPN	RS485
DELTA-F144	12-30 V DC	2 PR / NPN	RS485



Electrical data

Power supply.....	24 or 48 V AC, 115 or 230 V AC $\pm$ 10%
	12... 30 V DC
Power consumption.....	5 VA, 4 W
Encoder supply	10 ... 26 V DC, 60 mA
Command input	5 ... 40 V
Freq. max. Tachometer	25 Hz, 40 kHz
Freq. max. Batch	3 Hz, 25 Hz or 10 kHz
Data storage.....	10 year (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	"1/h", "1/min", "1/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