

Panel Meters and Controllers

Autoranging Frequency Meter

Type DI3-72 F1K

CARLO GAVAZZI



- 3-dgt μ P-based frequency indicator
- 1.0 to 999 Hz
- Autoranging capability
- 72 x 72 mm
- Degree of protection (front): IP 50 (IP 65 on request)

Product Description

3-dgt μ P-based frequency meter with autoranging capability. The housing is for panel mounting and ensures a degree of protection (front) of IP 50 (IP 65 on request).

Ordering Key

DI3-72F1KAD0XX

Model _____
 Range code _____
 Measurement _____
 Power supply _____
 Setpoints _____
 Options _____

Type Selection

Power supply	Options
A: 24 VAC, -15% +10%, 50/60 Hz ¹⁾	XX: None (standard)
B: 48 VAC, -15% +10%, 50/60 Hz ¹⁾	EX: Degree of protection IP 65
C: 115 VAC, -15% +10%, 50/60 Hz ¹⁾	
D: 230 VAC, -15% +10%, 50/60 Hz (standard)	¹⁾ Power supply on request

Supply Specifications

AC supply	230 VAC, -15% +10%, 50/60 Hz (standard) 24 VAC, 48 VAC, 115 VAC, -15% +10%, 50/60 Hz (on request)
Power consumption	3.2 VA

Input Specifications

Rated input	500 VAC, 1 to 1000 Hz, autoranging
Overload protection Continuous For 1 s	1.2 x rated input 2 x rated input
Accuracy (@ 25°C $\pm$ 5°C, R.H. $\leq$ 60%)	$\pm$ 0.1% f.s., $\pm$ 1 dgt
Temperature drift	$\pm$ 100 ppm/°C
Display	7-segment LED, h 14.2 mm, 3 digits
Sampling rate	1 time/s
Indication Max. Min. Over range	999 0.00 EEE
Input voltage	9 to 500 VAC
Input impedance	500 k Ω

General Specifications

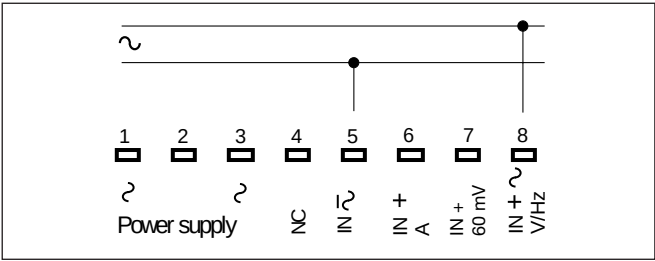
Operating temperature	0 to 50°C (32 to 122°F) (R.H. < 90% non-condensing)
Storage temperature	-10 to 60°C (14 to 140°F) (R.H. < 90% non-condensing)
Insulation reference voltage	300 V _{rms} to ground
Dielectric strength	4000 V _{rms} for 1 minute
Noise rejection CMRR	100 dB, 40 to 60 Hz
EMC	IEC 60801-2, IEC 60801-3, IEC 60801-4 (level 2), EN 50 081-1, EN 50 082-1
Safety standards	EN 61010-1, IEC 61010-1, VDE 0411
Connector	Screw-type
Housing Dimensions Material	72 x 72 x 75 mm ABS, self-extinguishing: UL 94 V-0
Degree of protection	Front: IP 50 (IP 65 on request)
Weight	250 g approx.
Approvals	CE, CSA



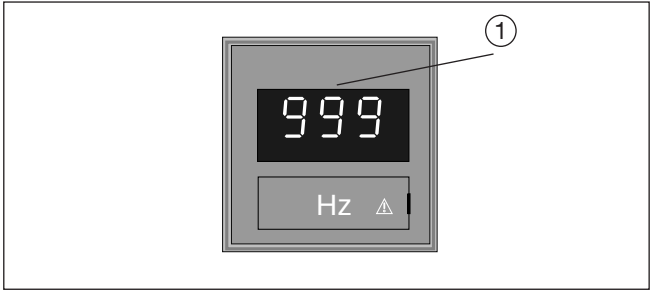
Range Table

Measurement	Dec. point position	Resolution
1.00 to 9.99 Hz	9.99	0.01 Hz
10.0 to 99.9 Hz	99.9	0.1 Hz
100 to 999 Hz	999	1 Hz
(Automatic selection)		

Wiring Diagram



Front Panel Description



1. **Display**
3-dgt (maximum read-out 999).
- Alphanumeric indication by means of 7-segment display for:
- Displaying of the measured value, over-range.

Dimensions (mm)

