

Panel Meters and Controllers

Autoranging Frequency Meter

Type DI3-DIN F1K

CARLO GAVAZZI



- 3-dgt μ P-based frequency indicator
- 1.0 to 999 Hz
- Autoranging capability
- DIN-rail mounting
- Degree of protection (front): IP 40

Product Description

3-dgt μ P-based frequency meter with autoranging capability. The housing is for DIN-rail mounting and ensures a degree of protection (front) of IP 40.

Ordering Key

DI3-DINF1KAD0XX

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

Type Selection

Power supply

- A:** 24 VAC, -15% +10%, 50/60 Hz ¹⁾
B: 48 VAC, -15% +10%, 50/60 Hz ¹⁾
C: 115 VAC, -15% +10%, 50/60 Hz ¹⁾
D: 230 VAC, -15% +10%, 50/60 Hz (standard) ¹⁾ 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

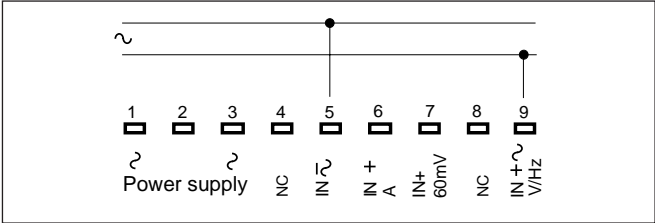
Operating temperature	0 to 50°C (32 to 122°F) (R.H. < 90% non-condensing)
Storage temperature	-10 to 60°C (14 to 140°F) (R.H. < 90% non-condensing)
Insulation reference voltage	300 V _{ms} to ground
Dielectric strength	4000 V _{ms} for 1 minute
Noise rejection CMRR	100 dB, 40 to 60 Hz
EMC	IEC 60801-2, 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	89 x 53,5 x 58.5 mm (3-DIN modules) ABS, self-extinguish.: UL 94 V-0
Degree of protection	Front: IP 40
Weight	Approx. 200 g
Approvals	CE, CSA



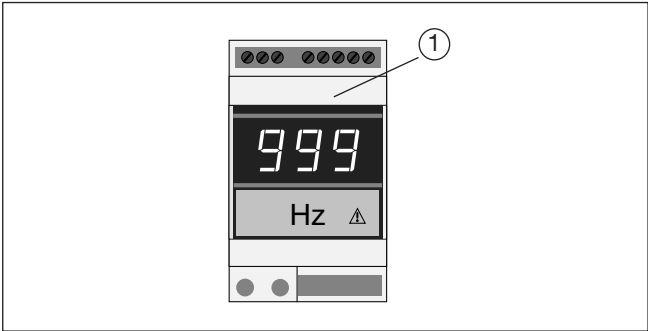
Range Table

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)

