

# Digital Panel Meters

## Autoranging Frequency Meter

### Type DI3-72 F1K



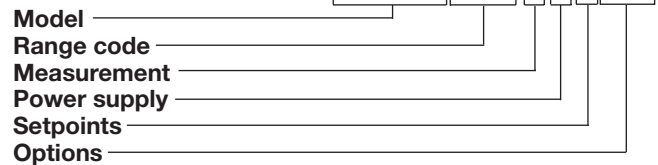
- 3-dgt  $\mu$ P-based frequency indicator
- 1.0 to 999 Hz
- Autoranging capability
- 72 x 72 mm
- Degree of protection (front): IP 50 (IP 65 on request)

### Product Description

3-dgt  $\mu$ 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**



### Type Selection

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

### Supply Specifications

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

### Input Specifications

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

### General Specifications

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

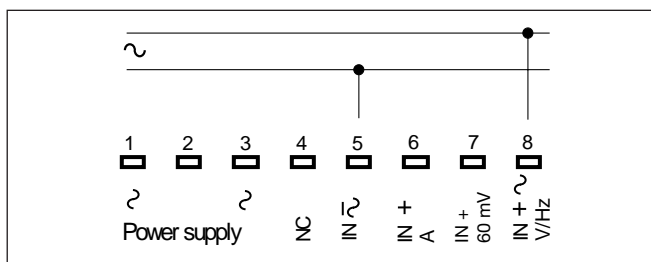


## Range Table

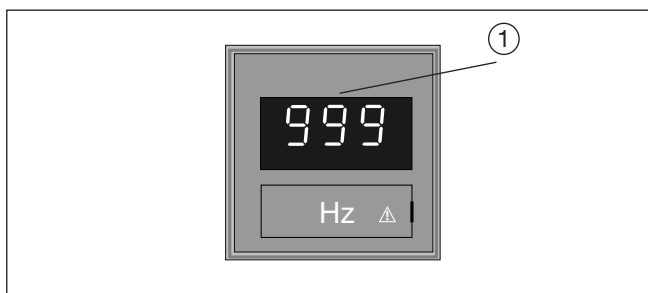
Measurement	Dec. point position	Resolution
1.00 to 9.99 Hz	9.99	0.01 Hz
10.0 to 99.9 Hz	99.9	0.1 Hz
100 to 999 Hz	999	1 Hz

(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

