

RISH DPM 48/96 AK Digital Panel Meter



Description

Instruments are balanced at the factory.

Measuring inputs are generally equipped with rugged screw terminal for instruments which are to be used in combination with current transformers. This version of the instruments can withstand 60 - fold overloading for 1 second.

Features :

- Display range: ± 1999
- Simple configuration
- Rugged metal housing
- 9 Ranges of power supply available

Applications

The digital panel meter *RISH DPM F48/96 AK* has been designed for industrial applications.

Measuring instrument is suited for one of the following measuring task :

- Frequency measurement to 199.9 / 500 Hz

Compliance with Regulations

Protection	IP 40, front panel
Protection Class	I
Tested	per EN 61010-1 / VDE 0411-1

Characteristic Values

Display

Type	7 segment LED
Color	red / option: green
Character Height	14 mm
Display Range	max. + 1999
Decimal Point	adjustable at front panel
Overflow Display	"1 ...", if display > 1999

Input

One Measuring Range	possible meas. ranges
Depending upon Model	see Order Information

Balancing

Instruments are balanced at the factory.

Error Limits

Intrinsic Error	$\pm (0.25 \% \text{ of range} + 5 \text{ digits})$
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Additional Error

Temperature Coefficient	< 190 ppm / K
Zero Point Drift	max. 0.2 digits / K
Series-Mode Rejection	
Ratio (SMRR)	> 50 dB at 50 Hz

Control Commands

Display Value Storage	externally controlled
Segment Test	externally controlled



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Measure, Control & Record with a Difference

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Supply Voltages

5V +/- 10%	max 5.5W approx. (isolated)
12V +/- 10%	max 5.5W approx. (isolated)
24V (21...30 VDC)	max 5.5W approx. (isolated)
48V +/- 10%	max 5.5W approx. (isolated)
110V +/- 10%	max 5.5W approx. (isolated)
220V +/- 10%	max 5.5W approx. (isolated)

*For DC voltage version isolation is 1 KV, for AC voltage version isolation is 2 KV

Alternating voltage AC

24V +10%, -15%	max 5.5W approx. (isolated)
115V + 10% -15%	max 5.5W approx (isolated)
230V + 10% -15%	max 5.5W approx (isolated)

A-D Conversion

Conversion Method	dual slope
Integration Time	approx. 100 ms
Measurements per Second	typically 3, response time for the entire instrument is dependent upon the measured quantity

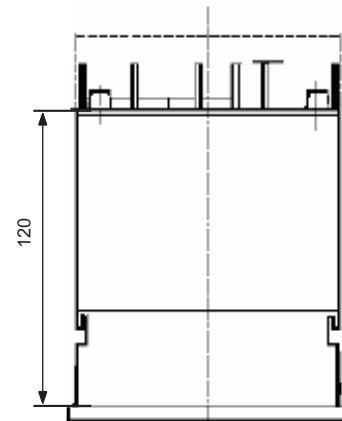
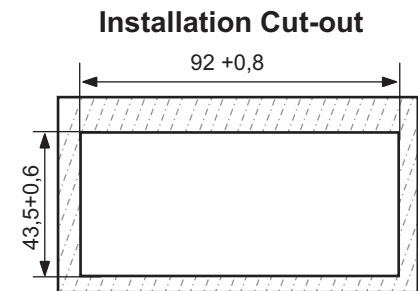
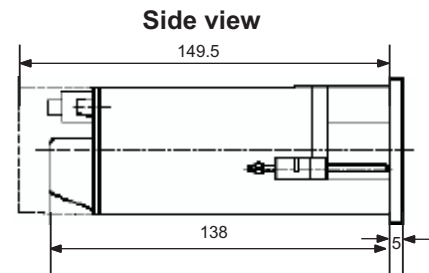
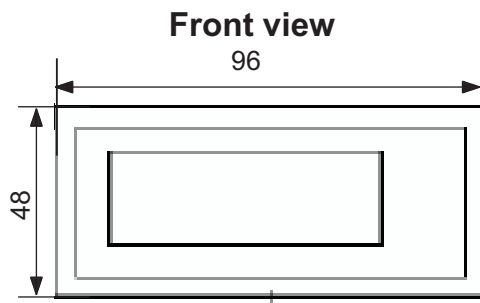
Ambient Conditions

Operating Temperature Range	0 ... + 50 °C
Storage Temperature Range	- 20 ... + 70 °C
Relative Humidity	max. 85%

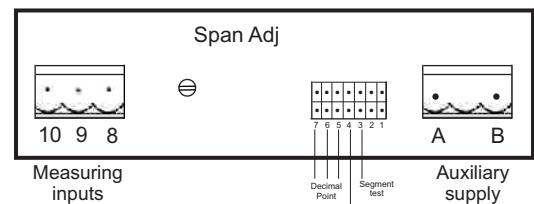
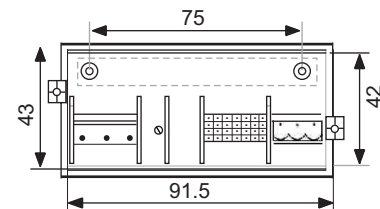
Housing

Material	metal half-shells
Front Dimensions	96 x 48 mm
Bezel Color	black matt,
Bezel Thickness	5 mm
Bezel Width	5 mm

Design and installation



Mounting Position and connections (Rear view)



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Order Information

Features		ID Number
RISH DPM	Measuring Instrument	F 48/96 AK
LED Display	red (standard)	•
Input Quantity		
Line frequency		
12... 199.9 Hz (80... 700 V)		D80
12... 500 Hz (80... 700 V)		D81
Display Range		
Standard balancing preset to upper range value : 1000 ¹⁾		•
Same as measuring range with maximum resolution		E1
0... xxx, as requested (max. 1999)		E92
Upper range value, preset to approx. 1000 Offset adjustment possible (-100... +300 digits)		E4
Decimal point		
Same as measuring range		•
no decimal point		ED1
xxx.X		ED2
xx.XX		ED3
x.XXX		ED4
Measuring quantity designation		
Same as measuring range		•
Supply voltage		
230 V AC, 50 / 60 Hz		H1
110 V AC, 50 / 60 Hz		H2
24 V AC, 50 / 60 Hz		H3
220 V DC		H4
110 V DC		H5
48 V DC		H6
24 V DC		H7
12 V DC		H8
5 V DC		H9
Bezel		
Black matt (standard)		•
Front panel		
Terminals		
Screw terminal blocks		R2
Mounting		
DIN screw clamp		•



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