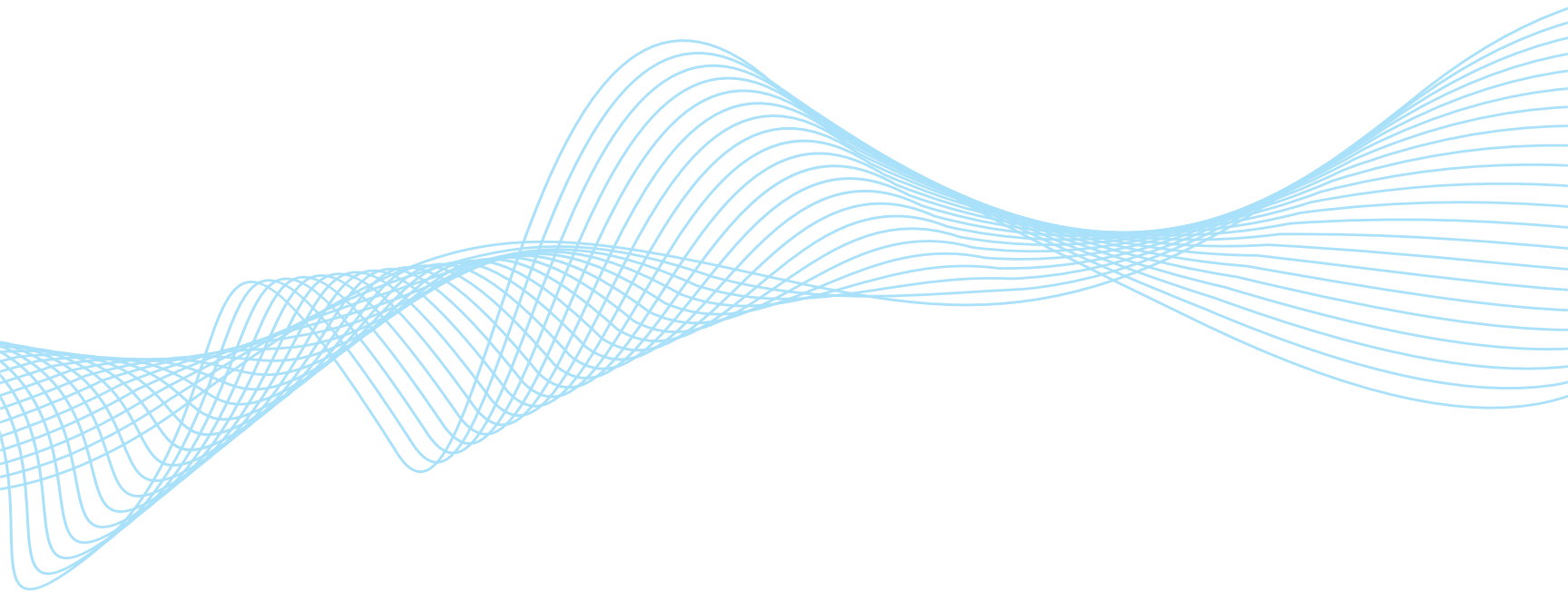


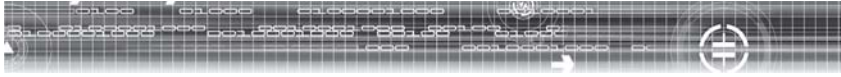
Frequency Measurement

| 48x96AK |



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Redefine Innovative Metering



Digital Panel Meter for Frequency Measurement

48 x 96AK | Digital panel meter for measuring Frequency.



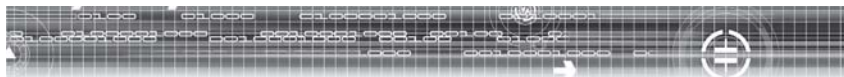
The Frequency Measuring Digital Panel Meter comes 48x96mm size. The Frequency Measuring DPM's are designed for industrial applications which require precise and onsite adjustment for display ranges.

GENERAL FEATURES:

APPLICABLE STANDARDS	
Performance standard for direct acting instrument	DIN EN60051
Digital Measurement	DIN 43 751
Device Safety	IEC 61010
Protection Class (Front Facia)	IP 20 according to IEC 60529 IP 54 (IP 65 on request)
Safety Class	II according to IEC 348/ VDE 0411
Climatic Class	Class 2 VDE / DIN 3540
EMC Immunity	DIN EN 61000-4-1 to 4
EMC Radiated Interference	DIN EN 50081 Class B

FACT SHEET:

Casing Details	Moulded case suitable for mounting in control / switchgear panels, machinery console
Case Material	Glass filled polycarbonate, Flame retardant & drip proof as per UL 94 V0
Front Facia	Glass-polycarbonate (RED transparent)
Color of Bezel	Black
Position of use	Vertical
Panel Fixing (mountable in a single cutout)	Metal side clamps
Panel thickness	≤40mm
Terminals	Plug-in screw terminal block
Display Type	Bright RED seven segment LED
Display Count	1999
Negative display indication	"-"
Overload indication	1..." if display>1999
Setting Time	<1sec. (0...99%)
ISOLATION:	
DC voltage version	1kV
AC voltage version	2kV
AMBIENT CONDITIONS:	
Operating Temp.	0...50°C
Storage Temp.	-40°C...80°C



TECHNICAL SPECIFICATIONS:

Model	48x96AK
Measured Qty	Frequency
Measurement Range	12... 199.9 Hz (80... 700 V) 12... 500 Hz (80... 700 V)
Accuracy	± (0.25% + 5 digit)
Display range	1999
Decimal point position	adjustable at front panel
Digit Height	14mm /7-segment digits
Temperature coefficient	< 190 ppm/ °C, plus
Zero point drift	max. 0.2 digit /°C
Series Mode Rejection Ratio (SMRR)	>50dB at 50Hz

DIMENSIONS & WEIGHTS :

Bezel size	48x96mm DIN 43718
Panel Cutout	92 + 0.8mm x 43.5 + 0.6mm
Overall depth	138mm 48x96
Weight	500g. approx.

POWER SUPPLY :

Direct voltage DC	5V +/- 10%
	12V +/- 10 %
	24V (21...30 VDC)
	48V +/- 10 %
	110V +/- 10 %
Alternating voltage AC	24V +10%, -15%
	115V + 10% -15%
	230V + 10% -15%
Power Consumption	max 5.5W approx (isolated)

OPTIONS :

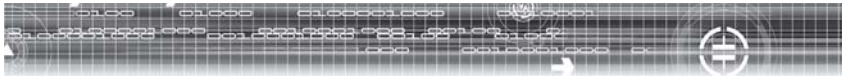
LED color	Green
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A-D CONVERSION :

Conversion Method	Dual Slope
Integration Time	Approx. 100ms
Measurements per Second	Typically 3, response time for the entire instrument is dependent upon the measured quantity

CONTROL COMMANDS :

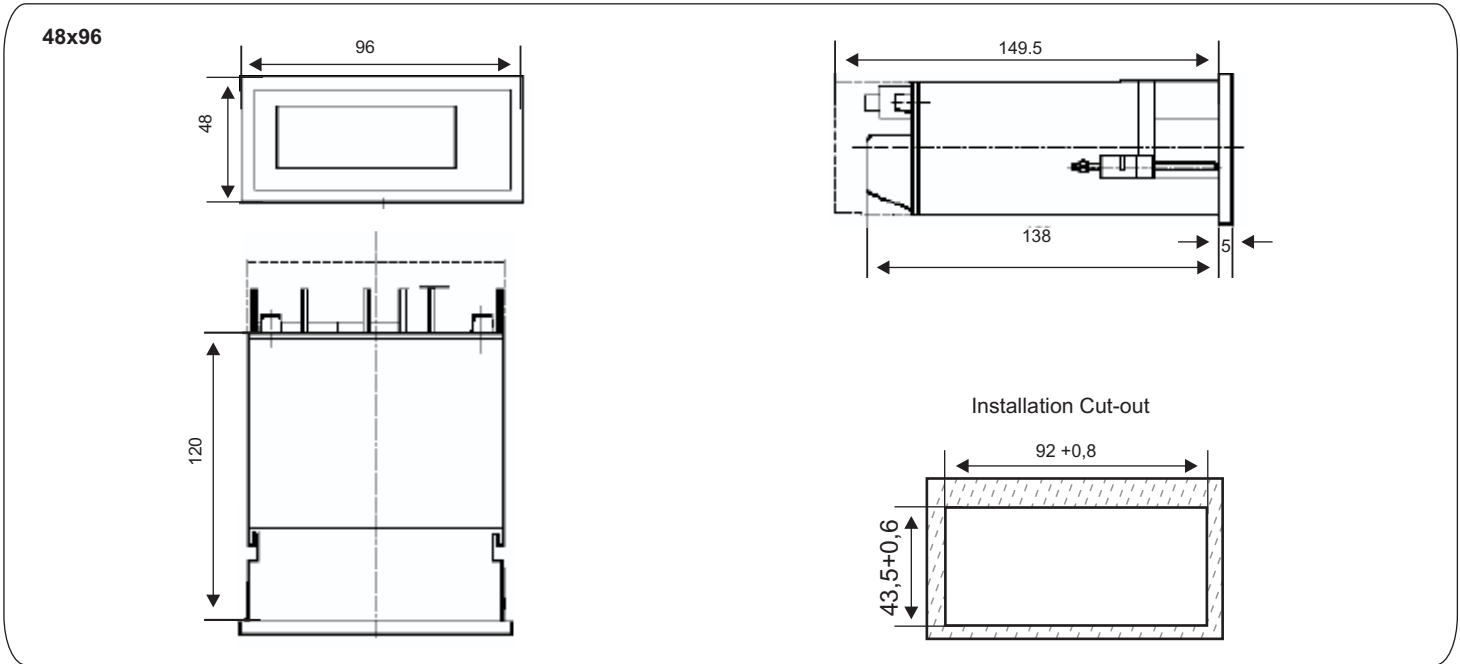
Display Value Storage	externally controlled
Segment Test	externally controlled



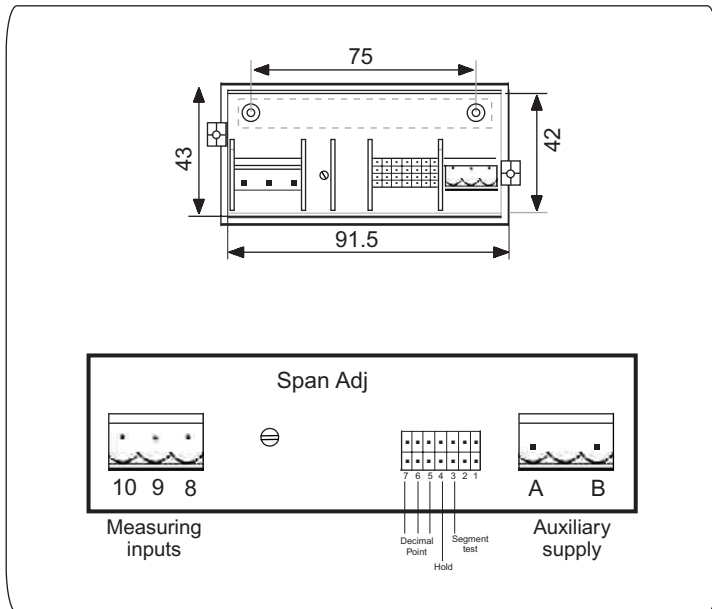
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DIMENSIONAL DRAWINGS:



CONNECTION DIAGRAMS :



ORDERING INFORMATION

Please specify ordering information as given below.

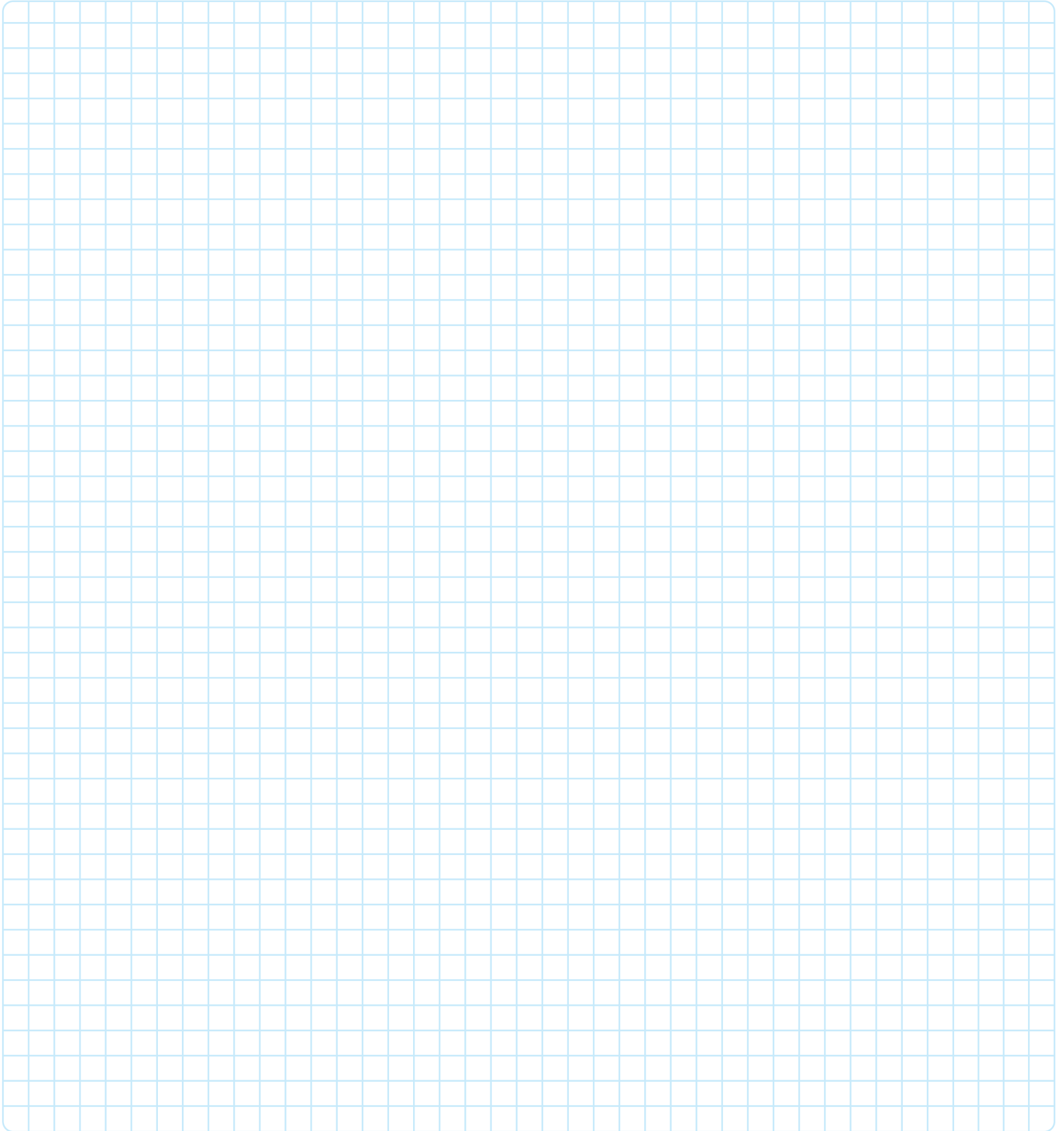
Type	Measuring Input	Display	Display caption	Options	Supply voltage
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ORDER EXAMPLE

48x96 AK	230V	12...199.9Hz	Hz	-----	230 V AC
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