

DKM-405

Network Analyzer with
total harmonic distortion relay

FEATURES

- True RMS measurements
- Total harmonic distortion display
- Max. demand display
- Configurable relay output
- Energy pulse output capability
- Optically isolated, configurable digital input
- Active-reactive power counters
- Hour counter
- Voltage transformer ratio for MV applications
- Front panel programming
- Reduced panel depth
- Wide operating temperature range
- Sealed front panel (IP54)
- Plug-in connection system



MEASUREMENTS

- Line-to-Line Volts: L1-L2, L2-L3, L3-L1
- Line-to-Neutral Volts: L1-N, L2-N, L3-N
- Line Currents: L1-L2-L3
- Active Power
- Reactive Power
- Apparent Power
- Power Factor
- Total Active Power: ΣP
- Total Reactive Power: ΣQ
- Total Apparent Factor: ΣS
- Total Power Factor: $\Sigma \cos$
- Active Power Counters: Pc1
- Reactive Power Counters: Qc1
- Hour Counter: Hc1
- Total Harmonics of any voltage or current

DESCRIPTION

The DKM-405 is a low-cost precision instrument designed to display various AC parameters in a 3-phase distribution panel.

The standard unit is designed for 230/480V network.

The harmonic analysis is available for up to 31 harmonics. THD values of both voltage and current inputs are available.

The optional digital input accepts both AC and DC signals and has programmable functions.

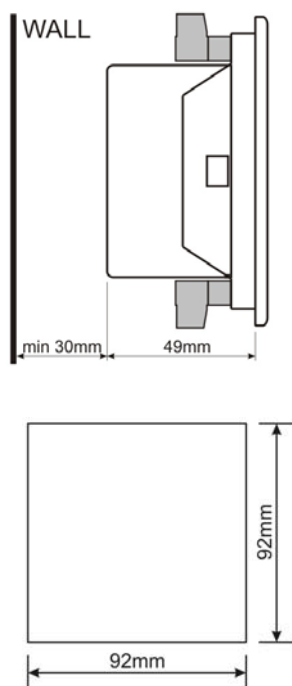
The optional relay output is programmable. Relay function is selected through a list.

The unit fits into a standard 96 mm DIN (92 x 92mm cutout) opening.

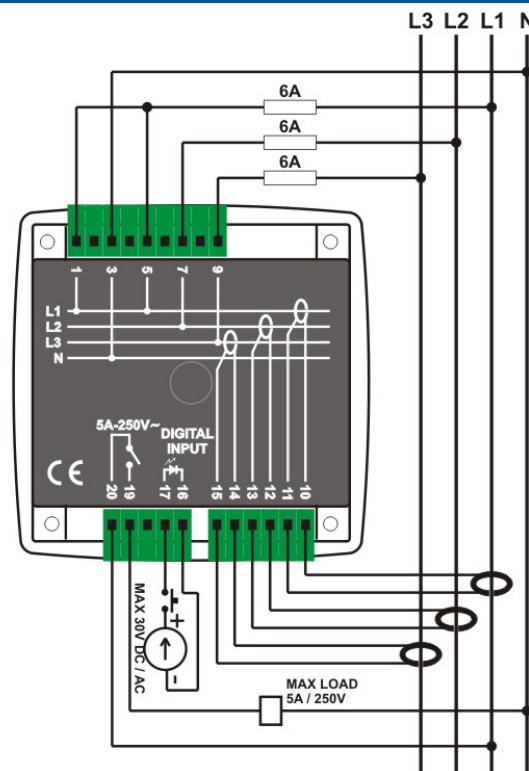
TECHNICAL SPECIFICATIONS

Power Supply Input	170 - 275V,AC 50 - 60Hz nominal ($\pm 10\%$) Different supply voltages available	Digital Inputs	5 to 30V,DC or AC
		Active Level:	250 ms.
		Min. Pulse:	1000V,AC, 1 minute
		Isolation:	-4°F to 176°F (-20°C to 80°C)
Measurement Input Range		Operating Temperature	95% non-condensing
Voltage:	10 - 300V,AC (L-N) 20 - 520V,AC (L-L)	Maximum Humidity	IP 54 - front panel IP 30 - back panel
Current:	0.2 - 5.5A,AC	Enclosure	Non-flammable, ROHS compliant
Frequency:	30 - 100 Hz	Installation	Flush mounting with rear brackets
Accuracy		Dimensions	4.01" W x 4.01" H x 2.09" D
Voltage:	0.5% + 1 digit	Panel Cutout	3.62" W x 3.62" H
Current:	0.5% + 1 digit	Weight	0.77 lbs.
Frequency:	0.5% + 1 digit	Applied Standards	
Power (kW, kVA):	1.0% + 2 digit	General:	LVD: 2006/95/EC EMC: 2004/108/EC
Power Factor:	2.0% + 2 digit	Safety:	Safety: EN61010 EMC: EN61326
Measurement Range			
CT Range:	5/5A to 5000/5A		
VT Range:	1.0/1 to 200.0/1		
kW Range:	1.0 kW to 6.5 MW		
Power Consumption	<4VA		
Voltage Burden	<0.1VA per phase		
Current Burden	<1VA per phase		
Relay Outputs	5A @ 250V,AC		

MOUNTING TOLERANCES AND PANEL CUTOUT



TYPICAL CONNECTIONS



For more information and certifications, please contact:

Panel Components & Systems, Inc. ■ Phone: (800) 523-9194 ■ info@pc-s.com

Main Office:	Stanhope, NJ	Phone: (973) 448-9400
South East:	Charlotte, NC	Phone: (704) 535-3357
South Central:	Tulsa, OK	Phone: (862) 258-6974
Canada:	Edmonton, AB	Phone: (877) 962-0557