

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. A different version is available for 120/208V systems.

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.

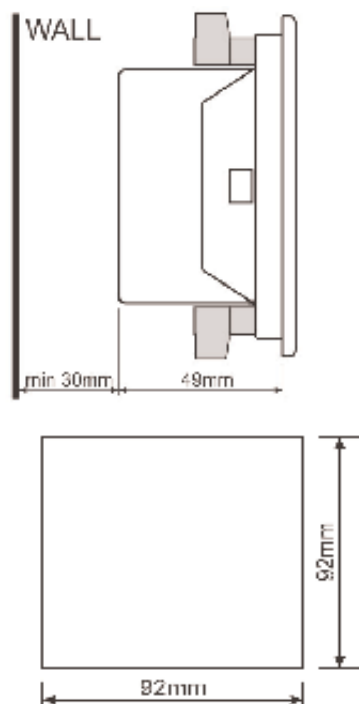
The optional relay output is programmable. Relay function is selected through a list.

The unit fits into a standard 92x92mm panel opening.

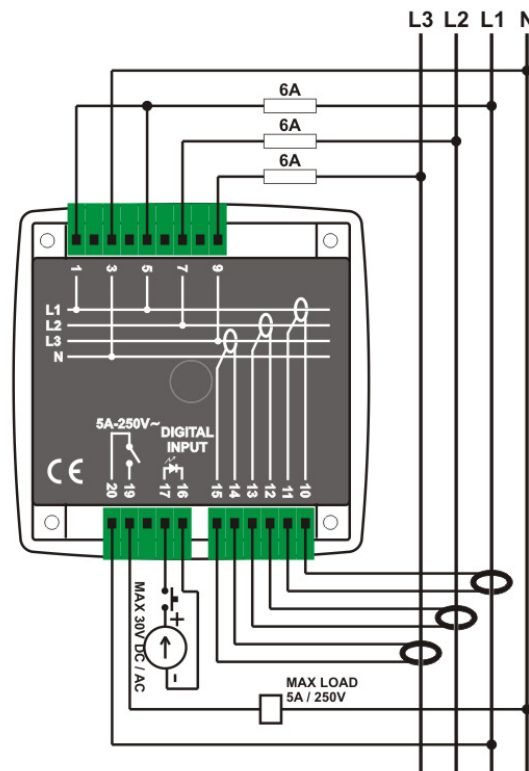
TECHNICAL SPECIFICATIONS

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
Measurement Input Range		Isolation:	-4°F to 176°F (-20°C to 80°C)
Voltage:	10 - 300V,AC (L-N) 20 - 520V,AC (L-L)	Operating Temperature	95% non-condensing
Current:	0.2 - 5.5A,AC	Maximum Humidity	IP 54 - front panel IP 30 - back panel
Frequency:	30 - 100 Hz	Enclosure	Non-flammable, ROHS compliant
Accuracy		Installation	Flush mounting with rear brackets
Voltage:	0.5% + 1 digit	Dimensions	4.01" W x 4.01" H x 2.09" D
Current:	0.5% + 1 digit	Panel Cutout	3.62" W x 3.62" H
Frequency:	0.5% + 1 digit	Weight	0.77 lbs.
Power (kW, kVA):	1.0% + 2 digit	Applied Standards	
Power Factor:	2.0% + 2 digit	General:	LVD: 2006/95/EC EMC: 2004/108/EC
Measurement Range		Safety:	Safety: EN61010 EMC: EN61326
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



PANEL COMPONENTS & SYSTEMS, INC.
MAIN OFFICE: Tel.: (973) 448-9400 Fax: (973) 448-1674
 149 Main Street, Stanhope, NJ 07874 USA

Or, please contact:

Additional Offices:

South East: Charlotte, NC
 South Central: Tulsa, OK
 Canada: Edmonton, AB

Phone: (704) 535-3357
 Phone: (862) 258-6974
 Phone: (877) 962-0557

+1 (800) 523-9194 ● www.pc-s.com