

### Modular LED instruments single-phase, non expandable



DMK 80



DMK 80 R1



DMK 81



DMK 81 R1



DMK 82



DMK 82



DMK 83



DMK 83 R1



DMK 84



DMK 84 R1

Order code	Displayed measurements	Relay output	Qty per pkg	Wt [kg]
	n°	n°	n°	[kg]

Voltmeter.

<b>DMK 80</b>	1 voltage value	–	1	0.237
<b>DMK 80 R1</b> Ⓜ	1 max voltage value 1 min voltage value	1	1	0.268

Ammeter.

<b>DMK 81</b>	1 current value	–	1	0.237
<b>DMK 81 R1</b> Ⓜ	1 max current value 1 min current value	1	1	0.268

Voltmeter or ammeter.

<b>DMK 82</b> Ⓜ	1 voltage or current value 1 maximum voltage or current value 1 minimum voltage or current value	–	1	0.241
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Frequency meter.

<b>DMK 83 R1</b> Ⓜ	1 frequency value 1 max frequency value 1 min frequency value	1	1	0.268
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Cosφ meter.

<b>DMK 84 R1</b> Ⓜ	1 cosφ value 1 power factor value	1	1	0.272
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Ⓜ The DMK82 can operate as a voltmeter or ammeter. It is duly equipped with two front plates (V and A) which must be fitted by the user depending on which instrument is required and on the wiring scheme used.

Ⓜ Relay output with control and protection functions.

### General characteristics

The DMK 8... instruments are available with modular housing, 3 module size. Measurements are True RMS values and provide for reliable operation even in the presence of harmonics.

### Operational characteristics

- Auxiliary supply voltage: 220-240VAC
- Operating frequency: 50-60Hz
- True RMS measurements
- Max and min measurement storage
- 1 relay output with 1 changeover contact (SPDT) for DMK...R1 version only
- Modular DIN 43880 housing, 3 modules
- Terminals: 4mm<sup>2</sup>
- EN degree of protection: IP40 on front; IP20 on terminals.

### DMK 80 - DMK 80 R1

- Voltage measurement range: 15-660VAC
- Operating frequency range: 45-65Hz
- Programmable VT ratio: 1.00-500.00
- Accuracy: ±0.25% f.s. ±1 digit

### DMK 81 - DMK 81 R1

- Current measurement range: 0.05-5.75A
- Operating frequency range: 45-65Hz
- Programmable CT ratio: 5-10,000
- Accuracy: ±0.5% f.s. ±1 digit

### DMK 82

- Voltage measurement range: 15-660VAC
- Current measurement range: 0.05-5.75A
- Operating frequency range: 45-65Hz
- Programmable VT ratio: 1.00-500.00
- Programmable CT ratio: OFF/5-10,000
- Accuracy: Voltage ±0.25% f.s. ±1 digit
- Accuracy: Current ±0.5% f.s. ±1 digit

### DMK 83 R1

- Measurement input: 15-660VAC
- Frequency measurement range: 50-60Hz ±10%
- Measurement accuracy: ±1 digit
- Accuracy: ±1 digit

### DMK 84 R1

- Cosφ measurement error: ±0.5° ±1 digit
- Cosφ measurement in 4 quadrants
- Accuracy: ±1° ±1 digit

### Control and protection functions

#### DMK 80 R1

- Voltage loss or failure: OFF/5-85%
- Maximum voltage: OFF/102-120%
- Minimum voltage: OFF/70-98%
- Time delay for max-min voltage or voltage loss Ⓜ: 0.0-900.0 seconds.

#### DMK 81 R1

- Current loss: OFF/2-100%
- Maximum current: OFF/102-200%
- Maximum current instantaneous tripping: OFF/110-600%
- Minimum current: OFF/5-98%
- Time delay for max-min current or current loss Ⓜ: 0.0-900.0 seconds.

#### DMK 83 R1

- Maximum frequency: OFF/101-110%
- Minimum frequency: OFF/90-99%
- Time delay for min-max frequency Ⓜ: 0.5-900.0 seconds.

#### DMK 84 R1

- Minimum-maximum cosφ thresholds in 4 quadrants
- Minimum-maximum PF thresholds in 4 quadrants
- Delay time for max or min threshold Ⓜ: 1-9,000 seconds.

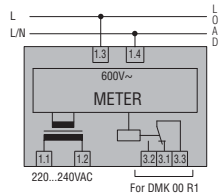
### Certifications and compliance

Certifications obtained: EAC.  
Compliant with standards: IEC/EN 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3.

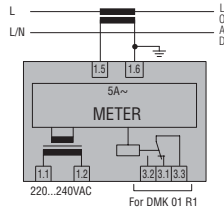
Ⓜ Independent adjustable delays.

### METERING INSTRUMENTS

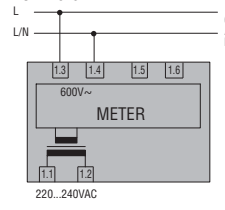
#### DMK 00 - DMK 00 R1



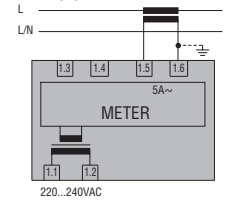
#### DMK 01 - DMK 01 R1



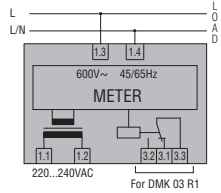
#### DMK 02 Voltmeter



#### Ammeter

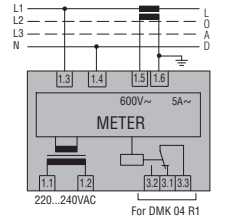


#### DMK 03 - DMK 03 R1

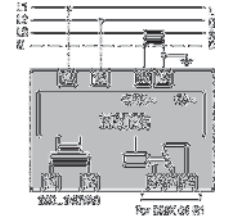


#### DMK 04 - DMK 04 R1

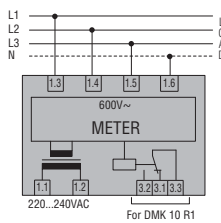
##### Single-phase



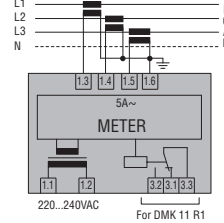
##### Three-phase



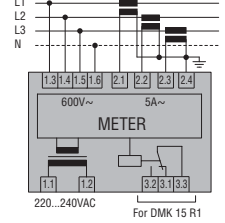
#### DMK 10 - DMK 10 R1



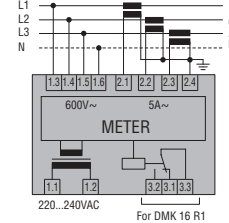
#### DMK 11 - DMK 11 R1



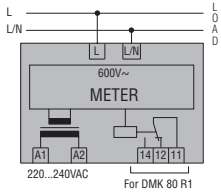
#### DMK 15 - DMK 15 R1



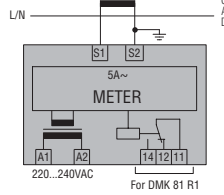
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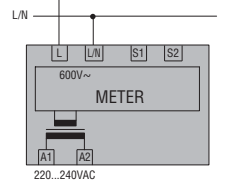
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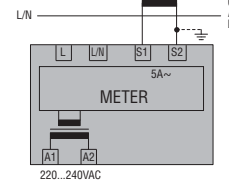
#### DMK 81 - DMK 81 R1



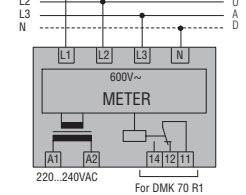
#### DMK 82 Voltmeter



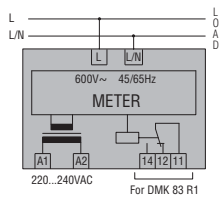
#### Ammeter



#### DMK 70 - DMK 70 R1

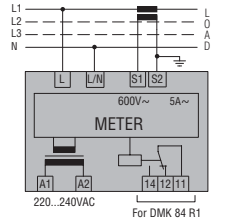


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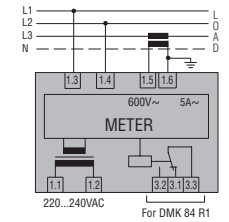


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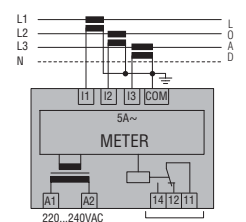
##### Single-phase



##### Three-phase



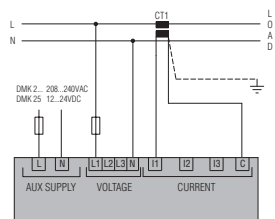
#### DMK 71 - DMK 71 R1



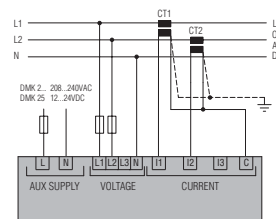
### FLUSH-MOUNT MULTIMETERS

#### DMK2...

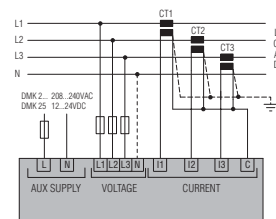
##### Single-phase



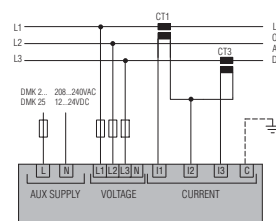
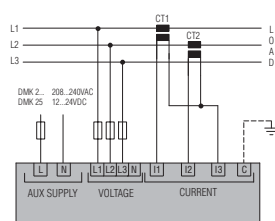
##### Two-phase



##### Three-phase with or without neutral



##### Three-phase without neutral in ARON connection



#### DMK 75 - DMK 75 R1

