

Flush-mount LED instruments single-phase, non expandable



DMK 0...

| Order code | Displayed measurements | Relay output | Qty per pkg | Wt [kg] |
|------------------------------|--|--------------|-------------|---------|
| | n° | n° | n° | [kg] |
| Voltmeter. | | | | |
| DMK 00 | 1 voltage value | – | 1 | 0.290 |
| DMK 00 R1 Ⓜ | 1 max voltage value 1 min voltage value | 1 | 1 | 0.323 |
| Ammeter. | | | | |
| DMK 01 | 1 current value | – | 1 | 0.290 |
| DMK 01 R1 Ⓜ | 1 max current value 1 min current value | 1 | 1 | 0.323 |
| Voltmeter or ammeter. | | | | |
| DMK 02 Ⓜ | 1 voltage or current value 1 maximum voltage or current value 1 minimum voltage or current value | – | 1 | 0.290 |
| Frequency meter. | | | | |
| DMK 03 R1 Ⓜ | 1 frequency value 1 max frequency value 1 min frequency value | 1 | 1 | 0.323 |
| Cosφ meter. | | | | |
| DMK 04 R1 Ⓜ | 1 cosφ value 1 power factor value | 1 | 1 | 0.290 |

Ⓜ The DMK02 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 for control and protection functions.

General characteristics

The DMK 0... instruments are available with flush-mount housing, 96x48mm/3.78x1.89". 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 (for DMK...R1 only)
- Housing: flush-mount 96x48mm/3.78x1.89"
- Terminals: 4mm²
- Degree of protection: IP54 on front; IP20 at terminals.

DMK 00 - DMK 00 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 01 - DMK 01 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 02

- 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
Current ±0.5% f.s. ±1 digit

DMK 03 R1

- Measurement input: 15-660VAC
- Frequency measurement range: 15-65Hz
- Accuracy: ±1 digit

DMK 04 R1

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

Control and protection functions

DMK 00 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 01 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 03 R1

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

DMK 04 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; UL Listed, for USA and Canada (cULus - File E93601), as Auxiliary Devices-Multimeters. Compliant with standards: IEC/EN 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL508, CSA C22.2 n° 14.

Ⓜ Independent adjustable delays.

Flush-mount LED instruments three-phase, non expandable



DMK 1...

| Order code | Displayed measurements | Relay output | Qty per pkg | Wt |
|--|---|--------------|-------------|-------|
| | n° | n° | n° | [kg] |
| Voltmeter. | | | | |
| DMK 10 | 3 phase voltage values | – | 1 | 0.297 |
| DMK 10 R1 [Ⓜ] | 3 phase to phase voltage values 3 maximum phase voltage values 3 maximum phase to phase voltage values 3 minimum phase voltage values 3 minimum phase to phase voltage values | 1 | 1 | 0.330 |
| Ammeter. | | | | |
| DMK 11 | 3 phase current values | – | 1 | 0.292 |
| DMK 11 R1 [Ⓜ] | 3 maximum phase current values 3 minimum phase current values | 1 | 1 | 0.336 |
| Voltmeter, ammeter and wattmeter. | | | | |
| DMK 15 | 3 phase voltage values | – | 1 | 0.332 |
| DMK 15 R1 [Ⓜ] | 3 phase to phase voltage values 3 phase current values 4 active power values, phase and total 3 maximum phase voltage values 3 maximum phase to phase voltage values 3 maximum phase current values 4 maximum active power values, phase and total 3 minimum phase voltage values 3 minimum phase to phase voltage values 3 minimum phase current values 4 minimum active power values, phase and total | 1 | 1 | 0.350 |

Ⓜ Connection also to single-phase.

Ⓜ Relay output for control and protection functions.

General characteristics

The DMK 1... instruments are available with flush-mount housing, 96x48mm/3.78x1.89". 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 (for DMK...R1 only)
- Housing: flush-mount 96x48mm/3.78x1.89"
- Terminals: 4mm²
- Degree of protection: IP54 on front; IP20 at terminals.

DMK 10 - DMK 10 R1

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

DMK 11 - DMK 11 R1

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

DMK 15 - DMK 15 R1

- Voltage measurement range: 35-660VAC
- Current measurement range: 0.05-5.75A
- Frequency measure range: 45-65Hz
- Programmable VT ratio: 1.00-500.00
- Programmable CT ratio: 5-10,000
- Accuracy: Voltage $\pm 0.25\%$ f.s. ± 1 digit
Current $\pm 0.5\%$ f.s. ± 1 digit
Power $\pm 1\%$ f.s. ± 1 digit.

Control and protection functions

DMK 10 R1

- Phase loss or failure: OFF/5-85%
- Maximum voltage: OFF/102-120%
- Minimum voltage: OFF/70-98%
- Asymmetry: OFF/2-20%
- Phase sequence: OFF/L1-L2-L3/L3-L2-L1
- Frequency
 - Maximum frequency: OFF/101-110%
 - Minimum frequency: OFF/90-99%
 - Time delay for max-min voltage, phase loss, asymmetry and min-max frequency [Ⓜ]: 0.5-900.0 seconds.

DMK 11 R1

- Current loss: OFF/2-100%
- Maximum current: OFF/102-200%
- Maximum current instantaneous tripping: OFF/110-600%
- Minimum current: OFF/5-98%
- Asymmetry: OFF/2-20%
- Time delay for max-min current or current loss and asymmetry [Ⓜ]: 0.5-900.0 seconds.

DMK 15 R1

- Voltage
 - Phase loss or failure: OFF/5-85%
 - Maximum voltage: OFF/102-120%
 - Minimum voltage: OFF/70-98%
 - Asymmetry: OFF/2-20%
 - Phase sequence: OFF/L1-L2-L3/L3-L2-L1
- Current
 - Current loss: OFF/5-85%
 - Maximum current: OFF/102-200%
 - Maximum current instantaneous tripping: OFF/110-600%
 - Minimum current: OFF/5-98%
 - Asymmetry: OFF/2-20%
- Power
 - Rated power: 1-10,000
 - Maximum power: OFF/101-200%
 - Max. power instantaneous tripping: OFF/110-600%
 - Minimum power: OFF/10-99%
- Frequency
 - Maximum frequency: OFF/101-110%
 - Minimum frequency: OFF/90-99%
 - Time delay for max-min voltage, max-min current or current loss, phase loss, asymmetry and min-max power [Ⓜ]: 0.0-900.0 seconds.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601), as Auxiliary Devices-Multimeters. Compliant with standards: IEC/EN 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL 508, CSA C22.2 n° 14.

[Ⓜ] Independent adjustable delays.

Flush-mount LED multimeter three-phase, non expandable



DMK 16

| Order code | Displayed measurements | Qty per pkg | Wt |
|------------|---|-------------|-------|
| | | n° | [kg] |
| DMK 16 | 3 phase voltage values 3 phase to phase voltage values 3 phase current values 4 active power values, phase and total 4 reactive power values, phase and total 4 apparent power values, phase and total 3 phase power factor values 1 frequency value 1 active energy value in kWh 1 reactive energy value in kvarh 1 hour counter 3 maximum phase voltage values 3 maximum phase to phase voltage values 3 maximum phase current values 4 maximum active power values, phase and total 4 maximum reactive power values, phase and total 4 maximum apparent power values, phase and total 3 minimum phase voltage values 3 minimum phase to phase voltage values 3 minimum phase current values 4 minimum active power values, phase and total 4 minimum reactive power values, phase and total 4 minimum apparent power values, phase and total | 1 | 0.350 |

General characteristics

The DMK 16 multimeter is available with flush-mount housing, 96x48mm/3.78x1.89". 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
- Accuracy: Voltage $\pm 0.25\%$ f.s. ± 1 digit
Current $\pm 0.5\%$ f.s. ± 1 digit
- Active energy accuracy: Class 2 (IEC/EN 62053-21 and IEC/EN 62053-23)
- Max and min measurement storage
- Voltage measurement range: 35-660VAC
- Current measurement range: 0.05-5.75A
- Operating frequency range: 45-65Hz
- Programmable VT ratio: 1.00-500.0
- Programmable CT ratio: 5-10,000
- Housing: flush-mount 96x48mm/3.78x1.89"
- Terminals: 4mm²
- EN degree of protection: IP54 on front; IP20 at terminals.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601), as Auxiliary Devices-Multimeters. Compliant with standards: IEC/EN 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL508, CSA C22.2 n° 14.

Flush-mount LED multimeter three-phase, non expandable



DMK 16 R1

| Order code | Displayed measurements | Relay output | Qty per pkg | Wt |
|-------------|--|--------------|-------------|-------|
| | n° | n° | n° | [kg] |
| DMK 16 R1 ① | 3 phase voltage values 3 phase to phase voltage values 3 phase current values 4 active power values, phase and total 4 reactive power values, phase and total 4 apparent power values, phase and total 3 phase power factor values 1 frequency value 1 active energy value in kWh 1 reactive energy value in kvarh 1 hour counter 3 maximum phase voltage values 3 maximum phase to phase voltage values 3 maximum phase current values 4 maximum active power values, phase and total 4 maximum reactive power values, phase and total 4 maximum apparent power values, phase and total 3 minimum phase voltage values 3 minimum phase to phase voltage values 3 minimum phase current values 4 minimum active power values, phase and total 4 minimum reactive power values, phase and total 4 minimum apparent power values, phase and total 2 minimum and maximum power factor values | 1 | 1 | 0.353 |

① Connection also to single-phase.

General characteristics

The DMK 16 R1 multimeter is available with flush-mount housing, 96x48mm/3.78x1.89"
 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
- Accuracy: Voltage $\pm 0.25\%$ f.s. ± 1 digit
 Current $\pm 0.5\%$ f.s. ± 1 digit
- Active energy accuracy: Class 2 (IEC/EN 62053-21 and IEC/EN 62053-23)
- Max and min measurement storage
- Voltage measurement range: 35-660VAC
- Current measurement range: 0.05-5.75A
- Frequency measurement range: 45-65Hz
- Programmable VT ratio: 1.00-500.0
- Programmable CT ratio: 5-10,000
- 1 relay output with 1 changeover (SPDT) contact
- Housing: flush-mount 96x48mm/3.78x1.89"
- Terminals: 4mm²
- EN degree of protection: IP54 on front; IP20 at terminals.

PROGRAMMABLE RELAY OUTPUT

- Voltage
 - Phase loss or failure: OFF/5-85%
 - Maximum voltage: OFF/102-120%
 - Minimum voltage: OFF/70-98%
 - Asymmetry: OFF/2-20%
 - Phase sequence: OFF/L1-L2-L3/L3-L2-L1
- Current
 - Protection inhibition max current: OFF/2-100%
 - Maximum current: OFF/102-200%
 - Maximum current instantaneous tripping: OFF/110-600%
 - Minimum current: OFF/5-98%
 - Asymmetry: OFF/2-20%
- Power factor
 - Maximum power factor: 0.10-1.00
 - Minimum power factor: 0.10-1.00
- Time delay for max-min voltage, max-min current or current loss, phase loss, asymmetry and min-max power factor ②: 0.0-900.0 seconds.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601), as Auxiliary Devices-Multimeters.
 Compliant with standards: IEC/EN 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL508, CSA C22.2 n° 14.

② Independent adjustable delays.