Product datasheet

Specifications



power and energy meter, GoLogic DM3141, volt, amps and frequency meter, LED, power factor, Class 1.0, RS485

METSEGLDM3141

Main

Range	Go Series
Product name	GoLogic DM3000
Device short name	GLDM3140 LED
Product or component type	VAF PF meter

Complementary

Device application	Remote monitoring Motor control Power distribution Building management system Energy monitoring
Type of measurement	Current Voltage Frequency RPM
Metering type	Unbalance current Calculated neutral current Unbalance voltage Rotation speed Phase currents Voltage U21, U32, U13, V1, V2, V3 Frequency Average voltage Vavg Average current Iavg Power factor
Counter functions	Power interruption ON hour counting
[Us] rated supply voltage	48...277 V AC 45...65 Hz 48...277 V DC
Network frequency	50 Hz 60 Hz
[In] rated current	1 A 5 A
type of network	2P + N 2P 3P + N 3P 1P + N
Maximum power consumption in VA	4 VA at 240 V between phase and neutral
Maximum power consumption in W	2 W at 240 V
Display type	8 segments LED
Display colour	Red
Messages display capacity	3 fields of 4 characters

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Display digits	12 digit(s) - 14.2 mm in height
Communication of data	Reading of measurements Instantaneous and demand values Revolution speed All counters
Tamperproof of settings	Protected by access code
Sampling rate	32 samples/cycle
Measurement current	10…6000 mA
Signal	Current 0.005...10 A (impedance 0.3 MOhm)6 x
Measurement voltage	80…480 V AC 50...60 Hz between phases 46…277 V AC 50...60 Hz between phase and neutral 100…999000 V AC 50...60 Hz with external VT 35…600 V AC 50...60 Hz full voltage range
Frequency measurement range	48…52 Hz 58…62 Hz
Measurement accuracy	Active energy +/- 1 % Reactive energy +/- 2 % Apparent energy +/- 1 % Active power +/- 1 % Reactive power +/- 1 % Apparent power +/- 1 % Current +/- 0.5 % Voltage +/- 0.5 % Frequency +/- 0.05 % 48...52 Hz / 58...62 Hz Frequency +/- 0.2 % 30...70 Hz Power factor +/- 0.01 Harmonic distortion (I THD & U THD) +/- 5 %
Accuracy class	Class 1 active energy conforming to IEC 62053-21 Class 2 reactive energy conforming to IEC 62053-23 Class 1 apparent energy Class 1 active power Class 1 reactive power Class 1 apparent power Class 1 current Class 1 voltage Class 1 power factor Class 5 harmonic distortion (I THD & U THD)
Demand intervals	1 s
Local signalling	Green LED: activity Green LED: communication 1...9999000 pulse/ k_h (kWh, kVAh, kVARh)
Communication port protocol	Modbus RTU at 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps even/odd or none - 2-wire, insulation 2500 V
Communication port support	Screw terminal: RS485
Material	Polycarbonate
Flame retardance	V-0 conforming to UL 94
Mounting mode	Flush-mounted
Mounting support	Framework
Installation category	III
Type of installation	Indoor installation
Measurement category	Category III 80…480 V
Electrical insulation class	Class II
Connections - terminals	Current circuit: screw clamp terminals (bottom) 2.08…3.31 mm² cable(s) Voltage circuit: screw clamp terminals (top) 0.82…3.31 mm² cable(s) Control circuit: screw clamp terminals (top) 0.82…3.31 mm² cable(s) Communication: screw clamp terminals (bottom) 0.33…3.31 mm² cable(s)

Tightening torque	Current circuit: 0.9…1 N.m Philips No 2 screwdriver Voltage circuit: 0.9…1 N.m Philips No 2 screwdriver Control circuit: 0.9…1 N.m Philips No 2 screwdriver Communication: 0.5…0.6 N.m Philips no 1 screwdriver
Wire stripping length	Current circuit: 3.68 mm Voltage circuit: 7 mm Control circuit: 7 mm Communication: 7 mm
Standards	IEC 61010-1:ed. 3 UL 61010-1:ed. 3
Product certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1 CULus conforming to CSA C22.2 No 61010-1 RCM EAC
Width	96 mm
Depth	Outside : 13.9 mm Panel : 48.8 mm
Height	96 mm
Net weight	300 g

Environment

Electromagnetic compatibility	Electrostatic discharge conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Surge immunity test conforming to IEC 61000-4-5 Conducted RF disturbances conforming to IEC 61000-4-6 Magnetic field at power frequency conforming to IEC 61000-4-8 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 Emission tests conforming to FCC part 15 class A Emission tests conforming to FCC part 15 Subpart C Emission tests conforming to FCC part 15 Subpart E
Overvoltage category	III
IP degree of protection	IP51 front: conforming to IEC 60529 IP30 body: conforming to IEC 60529
Relative humidity	5…95 % at 50 °C
Pollution degree	2
Ambient air temperature for operation	-10…60 °C
Ambient air temperature for storage	-20…70 °C
Operating altitude	<= 2000 m
service life	7 year(s)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.905 cm
Package 1 Width	11.903 cm
Package 1 Length	12.229 cm
Package 1 Weight	360 g
Unit Type of Package 2	S03
Number of Units in Package 2	18

Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	6480 g
Unit Type of Package 3	P12
Number of Units in Package 3	288
Package 3 Height	75 cm
Package 3 Width	80 cm
Package 3 Length	120 cm
Package 3 Weight	133.5 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	74

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	2e6b556c-15aa-4f88-b35e-16e68ae215e5
REACh Regulation	REACh Declaration

Use Longer

Lifetime extension

Repair	No

Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No