

Digital Multi-Meter MID

Part numbers: GNM1D (rs485)

Electrical specifications

Power Consumption	Self-powered (via measured voltage) ≤ 1 W, ≤ 8 VA
Base current	5 A
Maximum current (continuing)	45 A
Minimum current	0.25 A 0.02 A
Start up current	AV8: 230 V ac, from -30% to +20%
Working voltage	50Hz (in case of MID certification)
Frequency	45-65 Hz
Accuracy class	Active energy: Class 1 (EN62053-21) / Class B (EN50470-3) Reactive energy: Class 2 (EN62053-23)

Environmental specifications

Working temperature	From -25 to +55 °C/from -13 to +131 °F (in case of MID certification) From -25 to +65 °C/from -13 to +149 °F From -30 to +80 °C/from -22 to +176 °F
Storage temperature	From -30 to +80 °C/from -22 to +176 °F
R.H.:	From 0 to 90% non-condensing @ 40°C
Environment	Intended for Indoor use only.

For MID meters:

The meter is intended to be installed in a Mechanical Environment M2 as per 2014/32/EU Directive. M2 class applies to instruments used in locations with significant or high levels of vibration and shock, e.g. transmitted from machines and passing vehicles in the vicinity or adjacent to heavy machines, conveyor belts, etc. The meter is intended to be installed in Electromagnetic Environment E2, as per 2014/32/EU Directive. Class E2 applies to instruments used in locations with electromagnetic disturbances corresponding to those likely to be found in other industrial buildings.

Output specifications

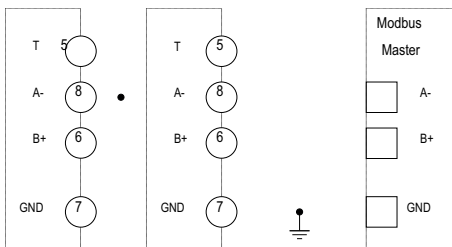
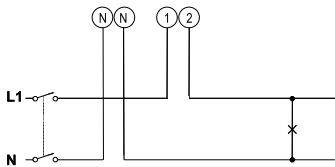
Pulse output	1000 impulses/kWh. Proportionate to measured active energy (EN62052-31)
Modbus RS485 port output	Modbus RTU protocol
M-Bus port output	M-Bus protocol, (EN13757-1)

LED specifications

Pulse weight	1000 impulses/kWh (EN50470-3, EN62052-11)
Duration	90 ms
Color	Red and orange

General features

Terminals	1, 2, N: section 2.5–6 mm ² , torque 1.1 Nm 3-8: section 1.5 mm ² , torque 0.4 Nm
Protection grade	Front: IP51, terminals: IP20





Dokument/document Försäkran om överensstämmelse/ Declaration of conformity		Utgåva datum/edition date 2015-05-04
Avdelning/department Kvalitet/Quality		
Ansvarig/prepared Kent Andersson	Version 4	Sida/page 1 av/of 1

Manufacturerer/Tillverkare: GARO AB
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Agent established within EC/Ombud etablerad inom EG

Telephone:
Telefax:

Agent of equipment/Materielslag: Energy meter/energi mätare

Trade Mark/Varumärke: GARO

Type Designation/Typbeteckning: GNMI D.. -MBUS, ..-RS485, GNM3D.. -MBUS, ..-RS485, GNM3T..,

We hereby declare that our product fulfils the requirements of following EC directives/

Vi intygar härmed att vår produkt uppfyller krav enligt följande EU direktiv:

- The Low Voltage Directive (LVD) 2014/35/EU / Lågspänningsdirektivet (LVD) 2014/35/EU.
- Electromagnetic compatibility (EMC) 2014/30/EU / Elektromagnetisk kompatibilitet (EMC) 2014/30/EU.
- RoHS Directive (RoHS) 2011/65/EU / RoHS direktivet (RoHS) 2011/65/EU.
- No electromagnetic compatibility (EMC 2014/30/EU) immunity or emission tests are required on the assembly / Produkten innehåller inte elektroniska apparater som påverkas enligt förbehållen enligt direktivet (EMC) 2014/30/EU.

The following harmonised standards (latest edition) or technical specifications which comply with good engineering practice in safety matters in force within the EC have been used in the design:/

Följande harmoniserade standarder (senaste utgåva) eller tekniska specifikationer som uppfyller god säkerhetsteknik praxis inom EG har använts i konstruktionen: EN 50470-1, EN 50470-3, the MID-Directive

- The equipment confirms completely with the above stated harmonised standards or technical specifications./
Materielen överensstämmer helt med ovan angivna harmoniserade standarder eller tekniska specifikationer.

Or/eller

- The equipment confirms only partially with the above stated harmonised standards or technical specifications but complies with good practice in safety matters in force within the EC./
Materielen överensstämmer endast delvis med ovan angivna harmoniserade standarder eller tekniska specifikationer, men uppfyller god säkerhetsteknisk praxis inom EG.

We have product surveillance according to CENELEC's harmonised requirements, documents CCA-201.

GARO AB
Company/Företag

2017-06-29
Date/Datum


Sign/Underskrift

Responsible for Technology and standardization/Teknik och standardiseringsansvarig
Position/Befattning

Kent Andersson
Sign in printed letters/Namnförtydligande