



Digital Multi-Meter MID

Part numbers: GNM3D (rs485)

Electrical specifications

| | |
|-------------------------------------|--|
| Power Consumption | Self-powered (via measured voltage) ≤ 1 W, ≤ 8 VA |
| Base current | 5 A |
| Maximum current (continuing) | 65 A |
| Minimum current | 0.25 A |
| Start up current | 0.02 A |
| Working voltage | 208 - 400V ac, |
| Frequency | 50Hz (in case of MID certification) 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 |
| 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

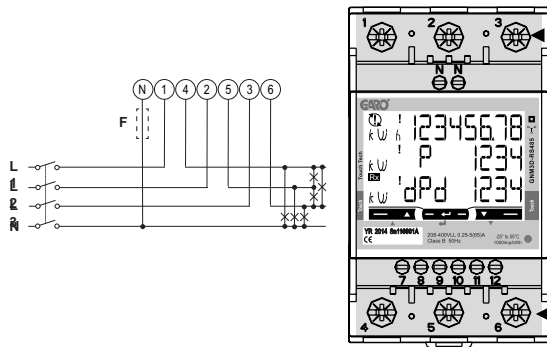
| | |
|---------------------------------|---|
| Pulse output | 1000 impulses/kWh. Proportionate to measured active energy (EN62052-31) |
| Modbus RS485 port output | Modbus RTU protocol |
| M-Bus port output | M-Bus protocol, (EN13757-1) |

LED specifications

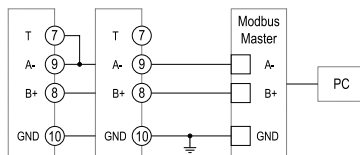
| | |
|---------------------|---|
| Pulse weight | 1000 impulses/kWh (EN50470-3, EN62052-11) |
| Duration | 90 ms |
| Color | Red and orange |

General features

| | |
|-------------------------|--|
| Terminals | 1 - 6: section 2.5–16 mm ² , torque 2.8 Nm 7-12,N: section 1.5 mm ² , torque 0.4 Nm Front: IP51, terminals: IP20 |
| Protection grade | |



RS485 Modbus communication port





| | | |
|--|--------------|---|
| 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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Sweden

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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