

## SMART METERS

# DDZ1513

## Single Phase RF Smart Meter

*Direct-connection single-phase AMI meter with RF mesh connectivity*

The DDZ1513 direct-connection single-phase AMI meter combines RF mesh connectivity with Class 1 accuracy, multi-tariff support, and built-in anti-tamper protection — purpose-built for modern utility management.

### Class 1

ACTIVE ACCURACY

### IP54

PROTECTION

### RF Mesh

CONNECTIVITY

### 1(80) A

CURRENT RANGE



DDZ1513 / i210 RF

### KEY FEATURES

- |                                                                                               |                                                                                        |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <p><b>01</b> RF mesh self-healing network for dense neighbourhood AMI deployments</p>         | <p><b>05</b> Remote load control via built-in relay</p>                                |
| <p><b>02</b> Anti-tamper detection for magnetic interference, cover open and reverse flow</p> | <p><b>06</b> Real-time event detection for tamper, outage and critical alarms</p>      |
| <p><b>03</b> Multi-tariff and TOU with up to 8 tariffs</p>                                    | <p><b>07</b> Power quality monitoring including voltage, current, PF and frequency</p> |
| <p><b>04</b> Bi-directional metering for solar and distributed generation</p>                 | <p><b>08</b> DLMS/COSEM with infrared and RS485; optional GPRS/3G modem</p>            |



## TECHNICAL DATA

## Technical specifications

Official ratings for DDZ1513 / i210 RF. Communication module and payment mode are specified at order.

## ELECTRICAL &amp; METROLOGY

|                        |                                               |
|------------------------|-----------------------------------------------|
| Reference voltage      | 220 / 230 / 240 V AC (single-phase)           |
| Operational voltage    | 80 %Un – 130 %Un                              |
| Max. switching voltage | >415 V                                        |
| Withstand voltage      | Ph-Ph / Ph-N: 4 kV; Ph-Earth: 2 kV            |
| Current                | 1(80) A                                       |
| Frequency              | 50 Hz / 60 Hz                                 |
| Accuracy class         | Active Energy Class 1                         |
| Impulse constant       | 1,000 imp/kWh                                 |
| Relay                  | Built-in                                      |
| Measurable quantities  | Active, reactive, apparent; PF; import/export |

## ENVIRONMENTAL &amp; PROTECTION

|                       |                                          |
|-----------------------|------------------------------------------|
| Operating temperature | –25 °C to +70 °C                         |
| Ingress protection    | IP54                                     |
| Lightning protection  | Built-in varistor                        |
| Maximum altitude      | Up to 3,500 m                            |
| ESD                   | Contact ±8 kV; Air 15 kV (IEC 61000-4-2) |

## COMMUNICATION &amp; INTERFACE

|                 |                                            |
|-----------------|--------------------------------------------|
| Interfaces      | Infrared and RS485; optional GPRS/3G modem |
| Protocol        | DLMS/COSEM                                 |
| RF connectivity | RF mesh module for remote management       |

## DISPLAY (LCD)

|                      |                                 |
|----------------------|---------------------------------|
| Energy registers     | kWh, kVARh, kVAh, import/export |
| Instantaneous        | Voltage, current, PF, frequency |
| Status / diagnostics | Tariff, relay status, alarms    |

## TARIFF

|                 |                              |
|-----------------|------------------------------|
| Tariff capacity | Up to 8 tariffs              |
| Tariff types    | TOU, Seasonal, Import/Export |

## STANDARDS &amp; COMPLIANCE

|                      |                          |
|----------------------|--------------------------|
| General requirements | IEC 62052-11             |
| Active energy        | IEC 62053-21             |
| Metering interface   | IEC 62055 series         |
| Data exchange        | IEC 62056-21; DLMS/COSEM |

**Request a quotation, sample or technical pack**

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## NEXT STEPS

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**ISO 9001 Certified**

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Product brochure · Technical data

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