Key Features

- High tech, state of the art design with high quality components
- Proven and reliable diaphragm gas meter with high accuracy multipoint calibration throughout the flow range
- For use with fuel gases of the 1st, 2nd & 3rd families according to EN 437:1993
- MID approval in accordance with EN 1359
- Volume conversion to base condition in accordance with EN 12405
- ATEX (EN 60079) approval (Zone 2 3G Ex ic IIA T3 Gc)
- IP65 ingress protection rating (IEC 60529)
- Optical port located on front of index (IEC 1107 and IEC 62056-21 compliant)
- Low power, solid state GWi Hall Effect sensor (patent pending)
- Calculated 15 year battery life (dependent on profile)
- MBus 868MHz and ZigBee 2.4GHz communications modules available
- FOTA upgradeable (Firmware Over The Air upgradeable)
- Real time clock accuracy: ±0.5s/day

Technical Data

<table>
<thead>
<tr>
<th></th>
<th>G10 (U16)</th>
<th>G16 (U25)</th>
<th>G25 (U40)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclic Volume (dm³)</td>
<td>5.6</td>
<td>11.2</td>
<td></td>
</tr>
<tr>
<td>Flow Range (m³/h)</td>
<td>Qmax</td>
<td>16</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Qmin</td>
<td>0.10</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>Qnorm</td>
<td>10</td>
<td>16</td>
</tr>
<tr>
<td>Max working pressure (mbar)</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Starting flow rate (dm³/h)</td>
<td>Qstart</td>
<td>13.0</td>
<td>20</td>
</tr>
<tr>
<td>Connection Centres</td>
<td>12&quot; (300mm)</td>
<td>335mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>G2&quot;</td>
<td>G2½*</td>
<td></td>
</tr>
<tr>
<td>Gas Connections (ISO228-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>6.7</td>
<td>12.4</td>
<td></td>
</tr>
<tr>
<td>Dimensions (H x W x D) (mm)</td>
<td>345 x 370 x 218</td>
<td>361 x 456 x 316</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>466 x 476 x 316*</td>
<td></td>
</tr>
<tr>
<td>Max Index Reading (m³)</td>
<td>999999.999</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature (°C)</td>
<td>-25 to +55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Temperature (°C)</td>
<td>-25 to +60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional Features

- Single removable front cover with separate battery and communication compartments
- Five layer security system comprising both physical and electronic tamper detection of compartment cover removal, MID seal removal, index removal, external magnetic fields
- 2 button user interface
- Universal comms module interface allowing interchangeability & in-service replacement
- Primary Battery: 3.6V Lithium Thionyl-Chloride (can be replaced in-service)
- HLC Backup Battery: 30 days capacity to support critical functions such as measurement logging and clock maintenance during battery change
- Wide viewing angle negative polarity LCD display with backlight illumination
- Powdercoated casework (RAL 7035 - light grey) with stainless steel band
- Measurements displayed to 1 litre resolution (0.001 m³) (configurable)
- Resistant to high ambient temperatures (650 °C) as per EN 1359
**Smart features**

- Approved firmware platforms for use in Europe & the United Kingdom
- Register and calculation of the following: Volume at measuring condition \([\text{m}^3]\), Corrected volume \([\text{m}^3]\), Volume at base condition \([\text{m}^3]\), Energy \([\text{kWh}\]), Instantaneous flow rate \([\text{m}^3/\text{h}]\), Maximum demand (peak flow)
- 2 channel profile recorder with independently configurable data capture
  - Configurable intervals & capacity
  - Channel 1 designed for general energy measurement
  - Channel 2 designed for billing profile
- Configurable time-of-use tariffs
- Optional prepayment (PPMID) feature
- Data logger with five independent FIFO buffers (up to 50 events), including:
  - General, Fault Conditions/Tampers, Security, Communications

**Communications Modules**

- ZigBee 2.4 Ghz SMETS 2
- Wireless MBUS 868 Mhz OMS (Mode 5 encryption)
- Wireless MBUS 868 Mhz SMR 5.0 (Mode 9 encryption)

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**G10/G16 Meter**
Utilises a 5.6L measuring unit, common base meter and index

**G25 Meter**
Utilises two 5.6L measuring units and a common, smart index
Extended product range

Standard Installation
G4 Smart Meter with
• Front Viewing Index (FVI) and
• GWi SR100 Regulator Kit

Semi-Concealed Installation
G4 Smart Meter with
• Top Viewing Index (TVI) and
• GWi SR100 SC Regulator Kit
(including all hoses/outlet pipe)

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