**Product data sheet**  
**IMD-IM20**  
**VIGILOHM IM20 110-415VCA**

### Main

<table>
<thead>
<tr>
<th><strong>Range</strong></th>
<th><strong>Vigilohm</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Device short name</strong></td>
<td>IM20</td>
</tr>
<tr>
<td><strong>Product or component type</strong></td>
<td>Insulation monitoring device</td>
</tr>
</tbody>
</table>
| **Device application** | Marine application  
                         Standard environment application |
| **Electrical circuit type** | Medium or low disturbed network |
| **Earthing system** | IT            |
| **Language** | Spanish  
               English  
               French  
               German  
               Russian  
               Chinese  
               Portuguese  
               Italian |

### Complementary

| **Network rated voltage** | 0…600 V - AC at 45…440 Hz (device connected to neutral)  
                           0…480 V - AC at 45…440 Hz (device connected to phase)  
                           0…345 V - DC |
| **Data recording** | Alarm logs |
| **Type of measurement** | Network insulation resistance - measurement range: 0.1 kOhm...10 MOhm  
                           Earth leakage capacitance - measurement range: 0.1...40 µF  
                           History of alarms |
| **Local signalling** | Green indicator light: satisfactory insulation resistance  
                        White indicator light: below prevention threshold  
                        Orange indicator light: below fault threshold  
                        Orange flashing indicator light: transient fault |
| **Threshold setting** | Prevent: 1 kOhm...1 MOhm  
                         Fault: 0.5...500 kOhm |
| **Time delay range** | 0...5 min for signalling circuit |
| **Response time** | <= 5 s |
| **Auxiliary supply voltage** | 110...415 V AC 45...440 Hz +/- 15 %  
                              125...250 V DC +/- 15 % |
| **Power consumption in VA** | 12 VA |
| **Measurement voltage** | 75 V |

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.

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Measurement current 0…0.4 mA
Internal impedance 110 kOhm - AC at 0.1…440 Hz
Test function Manual
Self test
Output contact 1 C/O standard or fail-safe
Breaking capacity 250 V - AC at 6 A
12...24 V - DC at 6 A
Input function Injection inhibition: 24 V DC 5 mA
Communication port protocol Modbus
Communication port support RS485
Display type Digital display
Mounting mode Clip-on
Flush-mounted
Mounting support DIN rail
Panel
Connections - terminals Removable screw terminal block0.2…2.5 mm²
Material Thermoplastic
Overvoltage category III
Net weight 0.25 kg
Height 110 mm
Width 96 mm
Depth 59 mm

Environment
Dielectric strength 4000 V - AC
5500 V - DC
IP degree of protection Front face: IP52
Environmental characteristic Exposure to damp heat not in service conforming to IEC 60068-2-30
Exposure to damp heat in service conforming to IEC 60068-2-56
Salt mist conforming to IEC 60068-2-52
Operating altitude <= 3000 m
Pollution degree 2
Type of installation Indoor
Standards IEC 60364-4-41
IEC 61010-1
IEC 61557-8
IEC 61326-2-4
Product certifications BV
DNV
CE
EAC
RMRS
Ambient air temperature for operation -25…55 °C
Ambient air temperature for storage -40…70 °C

Offer Sustainability
EU RoHS Directive Compliant
EU RoHS Declaration
Mercury free Yes
RoHS exemption information Yes
China RoHS Regulation China RoHS declaration
WEEE The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty
Warranty 18 months