MPM6881 Wireless Pressure Transmitter

**Introduction**

MPM6881 is an industrial pressure instrument integrated with features of battery power supply, ultra-low power consumption, wireless communication, pressure monitoring. Based on the wide coverage of NB-IoT/2G public network, MPM6881 realizes on-line monitoring for pressure points in a wide range. Combining the application of Web big-data platform, it supports remote setting for data collecting interval, data sending interval, alarm limit, etc.

MPM6881, with protection IP67, is applicable for outside environment, easy to be installed, and when start up, the data could be transferred to PC or mobile phone for querying. It is also applicable for pressure monitoring environment with no power supply, for site application of fire control, water pipeline, air conditioning system, industry process, etc.

**Features**

**Network**
Ultra-low power consumption, NB-IoT network; GPRS network

**Battery power supply**
Integrated high-energy lithium battery, with service life over 3 years

**On-line monitoring**
Data application in PC and mobile terminals

**Informatization management**
Based on GIS managing system, device state, etc is well readable.

**Professional pressure monitoring**
Wide temperature compensation for pressure sensor, over 25 years experience in design and manufacturing of pressure sensors

**Integrated structure**
Smart structure, integrated design, easy for site installation

**Alarm**
Alarm for low power/pipeline overpressure or underpressure
Alarm pushing to Email

**Remote setting**
Support remote setting for data collecting frequency, data transferring frequency, alarm limit, etc.

**Breathing light alert**
Breathing light alert for device state/abnormal conditions

**Third-party data application**
Opened database and interface protocol, and available interface parsing file
## Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>0kPa~20kPa...10MPa</td>
</tr>
<tr>
<td>Pressure type</td>
<td>Seal Gauge/Absolute</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.5%FS</td>
</tr>
<tr>
<td>Display</td>
<td>LED breathing light alert</td>
</tr>
<tr>
<td>Network type</td>
<td>NB-IoT(B1/B3/B8/B5/B20/B28)/ 2G(B2/B3/B5/B8)</td>
</tr>
<tr>
<td>Antenna</td>
<td>Built-in</td>
</tr>
<tr>
<td>Collecting interval</td>
<td>1,5,10,30,60,360,720,1440 minutes options</td>
</tr>
<tr>
<td>Sending interval</td>
<td>1,5,10,30,60,360,720,1440 minutes options</td>
</tr>
<tr>
<td>Wakeup mode</td>
<td>Timing, keying, alarming wakeup</td>
</tr>
<tr>
<td>Setting mode</td>
<td>Remote setting</td>
</tr>
<tr>
<td>Data uploading</td>
<td>Pressure data, battery information, network state, self-checking state</td>
</tr>
<tr>
<td>Power supply</td>
<td>3.6V@19Ah</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Standby current≤50uA, average sending current≤100mA</td>
</tr>
<tr>
<td>Working temperature</td>
<td>-20℃ ~70℃</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40℃ ~85℃</td>
</tr>
<tr>
<td>Vibration</td>
<td>≤3g/10Hz...150Hz(IEC 60068-2-6-2007)</td>
</tr>
<tr>
<td>Protection</td>
<td>IP67</td>
</tr>
<tr>
<td>Pressure diaphragm</td>
<td>Stainless steel 316L</td>
</tr>
<tr>
<td>Housing material</td>
<td>PC</td>
</tr>
<tr>
<td>Installation</td>
<td>Vertical, horizontal</td>
</tr>
<tr>
<td>Outline dimension</td>
<td>H: 120mm, Max dia.≤50mm</td>
</tr>
<tr>
<td>Weight</td>
<td>~0.3kg</td>
</tr>
</tbody>
</table>

## System topology

![System topology diagram](image-url)
## Order Guide

<table>
<thead>
<tr>
<th>MPM6881</th>
<th>Wireless Pressure Transmitter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>0kPa~20kPa...10MPa</td>
</tr>
<tr>
<td>[0~X]kP or MPa</td>
<td>X: actual measuring range</td>
</tr>
<tr>
<td>Code</td>
<td>Communication mode</td>
</tr>
<tr>
<td>G2</td>
<td>2G</td>
</tr>
<tr>
<td>GN</td>
<td>NB-IoT</td>
</tr>
<tr>
<td>Code</td>
<td>Software application</td>
</tr>
<tr>
<td>M</td>
<td>Micro Sensor Big-data Platform</td>
</tr>
<tr>
<td>C</td>
<td>Self-built application, open database/communication protocol</td>
</tr>
<tr>
<td>Code</td>
<td>SIM card</td>
</tr>
<tr>
<td>S₂</td>
<td>customer’s own SIM card (with data service)</td>
</tr>
<tr>
<td>Code</td>
<td>Others</td>
</tr>
<tr>
<td>C₁</td>
<td>M20×1.5 male, face type seal</td>
</tr>
<tr>
<td>C₃</td>
<td>G1/2 male</td>
</tr>
<tr>
<td>S</td>
<td>Sealed gauge</td>
</tr>
<tr>
<td>A</td>
<td>Absolute</td>
</tr>
</tbody>
</table>

**Notes**

Please pay attention that the media should be compatible with the contacted parts;

If any special requirements on function or specification, please contact with us freely.