MGBTECH
ENVIRONMENT MEASURING TECHNOLOGY

TARI TIDE

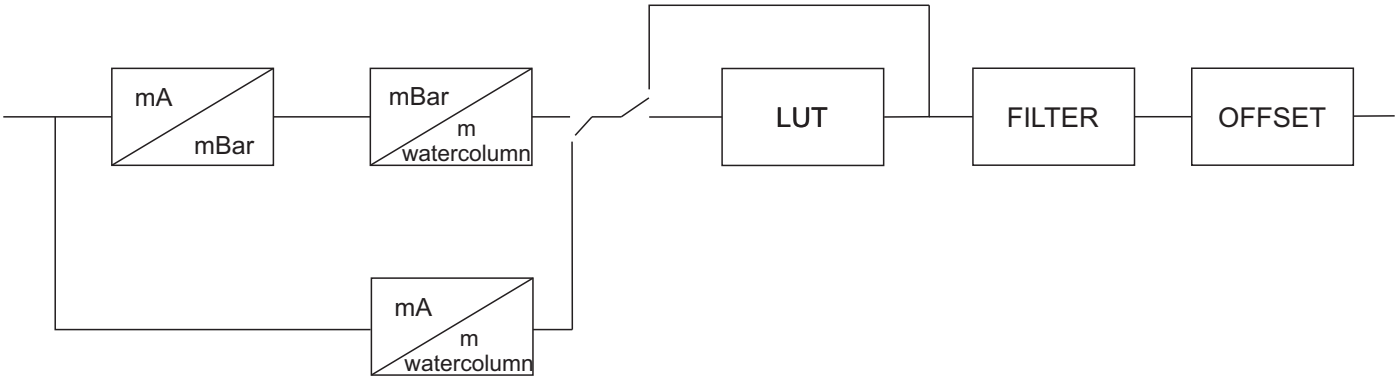
Dual channel tidal module

- ✓ **Dual channel**
- ✓ **Advanced filtering options**
- ✓ **Multiple reference systems**
- ✓ **Wizard style configuration**

- ✓ **Functional modes**
  - **Single sensor/single tide**
  - **Single sensor/dual tide**
  - **Dual sensor**
  - **Dual absolute sensor**

- ✓ **4-20mA Sensors**
  - **Pressure**
  - **Radar**
  - **Drawwire**

This tidal module is part of the TARI product range. It gives you the flexibility and power to handle a wide range of tide measurement applications. The graphical user interface has wizard like configuration for easy setup.



The TARI TIDE module is the third-generation tidal station designed by MGB-Tech. It incorporates all functionality needed to handle the use cases we encountered over the past decades. It has four functional modes that determine how the module uses its two input channels. You can go from a simple single sensor single value setup to a two sensors two value setup. This way you can for example measure the water level at different sides of a dam. Measure the water level with two types of sensors or simply have a redundant sensor setup.

The TARI TIDE module can combine two absolute pressure sensors to calculate the tide. One sensor is installed as an atmospheric pressure sensor, the second below the water line. The main advantage is that the submersed pressure sensor can have a very long cable thus enabling installations that are otherwise difficult or unreliable.

The module has a calibration table (LUT) that can be used to do on site calibrations of your installation.

A series of heavy filters are available that can cope with the most challenging wave situations. Selecting the strongest filter will reduce 2 meter 10 second swell waves to millimeters by applying strong FIR filters over a 180 second moving window.

The module comes with an easy to use graphical user interface. The integrated wizard takes you through all the needed configurations and calibration steps to get a fully operational module.

Channel 1 & 2 specifications
- **21VDC power available per channel**
- **24-bit A/D converter 4ppm full-scale error**
- **2Hz sample rate per channel**
- **2ppm/°C voltage reference**
- **0.1% voltage reference initial accuracy**
- **4-20 mA input range**

Filters
- **Light filter (10 seconds)**
- **Medium filter (30 seconds)**
- **Heavy filter (60 seconds)**
- **Extra heavy filter (180 seconds)**

Connectors
- **2 x M12 A-code 5P female**

Mechanical
- **110.0mm x 100.0mm x 40.0mm**

Power consumption
- **0.14 W**

Environmental
- **Operational temperature -20°C +70°C**

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