

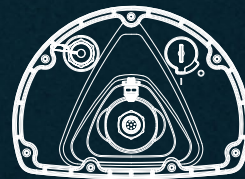
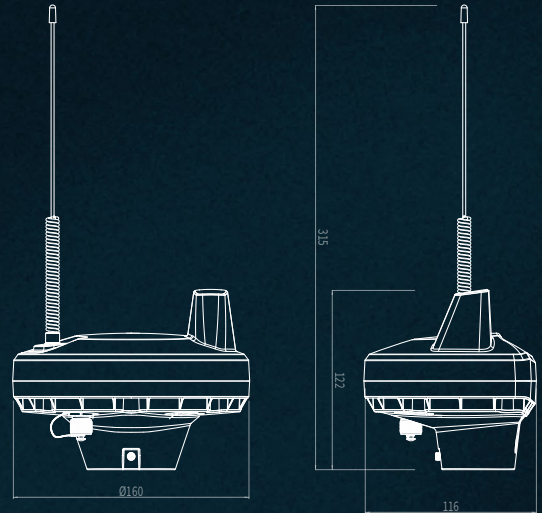


TELEMETRY SIMPLIFIED

D20[®] SDI

Satellite Telemetry Solution

- Low cost telemetry solution suited to difficult to access and remote areas
- Transmits from virtually any surface location globally
- Up to 4 years of maintenance free reporting with included battery
- Connect up to 4 SDI-12 devices with multiple channel configuration options
- Self-contained in a rugged, waterproof, pole mountable housing to suit harsh environments
- Robust M12 8-Pin interface connector and simple commissioning process via separate USB



D20® SDI

The Zepiro® D20® (Direct-To-Orbit) SDI satellite telemetry solution is software configurable to suit the specific equipment and desired parameters.

KEY FEATURES

- Integrated satellite transceiver
- Integrated GPS receiver
- Low power micro processor for data acquisition
- System supervision functionality
- Powered SDI-12 supporting multiple devices and multiple channels
- Multiple power options including:
 - Internal primary battery pack (Non-rechargeable, serviceable)
 - Internal rechargeable battery pack with external solar supply
 - Wide range external power input: 7VDC to 34VDC
- Single protected M12 8-Pin Interface connector to device(s)
- Separate USB interface to allow for “as installed” commissioning and validation via software configuration tool
- Self-contained in sealed rugged housing to suit harsh environments
- Multiple mounting options

SPECIFICATIONS

- Myriota Network satellite communications
- Operating temperature range -10°C to 65°C
- Enclosure IP Rating IP67
- Up to 4-year primary cell battery life with the following parameters
 - SDI-12 supply 12V @ 40mA
 - 4 wakes @ <10s each/12h
 - Up to 4 messages (80 bytes total) per 24h - satellite network dependent
- Maximum number of SDI-12 devices: 4
- Multiple channel configuration options

CONFIGURATION TOOL

- Configure acquisition parameters of the D20® unit and connected SDI-12 devices
- View estimated battery endurance based on setup
- Validate connected devices as installed and generate test messages and commissioning reports
- Automatic data packaging and validation according to the selected parameters
- Optimise readings to suit data transmission packets
- All data is time stamped
- Diagnostics data is sent 2 times per week as 1 individual message

CONFIGURABLE PARAMETERS

- Number of connected SDI-12 devices
- Number of individual channels per device
- Value precision per channel
- Sampling interval (applies to all devices)
- Absolute time of first acquisition
- Multiple and highly flexible data acquisition methods for connected SDI-12 devices
- Option to select from list of endorsed, preconfigured SDI-12 devices

COMMISSIONING PARAMETERS

- SDI-12 device IDs
- SDI-12 supply current
- GPS position
- GPS time (used for time stamp)
- Device firmware version
- Sensor diagnostics
- Battery charge voltage
- Battery charge level
- Time/Date of next data transmission opportunity
- Site information
- Data validation

All specifications are preliminary and subject to change without notice.

