

## XCI - MONITORING STATION ACQUISITION CARDS

XCI multiple acquisition card are for our monitoring stations FLD3PRO, AGR3PRO and HM3 that allows to connect a wide array of sensors range in flow water measures and environmental physic or chemical parameters.

Users can install any combination of the XCI cards shown below, in the five available card slots for one single logger station. Choose the right card/s for your application to tailor the device to your exact monitoring requirements.

## SCHDV - DOPPLER VELOCITY CARD

The Doppler card provides the input for connecting Doppler ultrasonic velocity sensors.

Compatible sensors:

- SDI4 Doppler ultrasonic insert velocity sensor for full filled or pressured conduits
- SDVP2 Summerged Doppler ultrasonic area per velocity sensor for free surfaces
- SDV1 Summerged Doppler ultrasonic velocity sensor for free surfaces

Each Doppler ultrasonic velocity sensor is supplied with 9-pin D connector to plug in the Doppler card.



## SCHIO - I/O INPUT / OUTPUT CARD

The I/O card support seven sensor inputs and four control outputs including 4-20 mA, voltage and digital. The card also supplies 12V to supply your add-on sensors.

**Compatible sensors:**

- EchoFlo ultrasonic depth sensor (eg. storage, fuel tank, channel level) for contactless installation
- Water quality sensors (eg. pH, DO/EC)
- Weather sensors (eg. rainfall, wind speed & direction)
- Engine management (eg. temperature, pressure, RPM)
- Water sampler

### SPECIFICATIONS

#### INPUT (per card)

- 2x 4-20 mA analog inputs: 12 bit DAC resolution, accuracy 0.5% f.s.  
2x voltage inputs: 0...2.5V or 0...30V  
2x digitals input: frequency, 16 bit resolution, range 0...65535 Hz

#### OUTPUT (per card)

- 2x 4-20 mA analog output: 12 bit DAC resolution, accuracy 0.5% f.s.  
2x digital/pulse output: open collector referenced to GND, 0...10 Hz

#### POWER OUTPUT (per card)

12V switched power output for 3rd party sensor supply



## SCHPU- PULSE I/O CARD

The Pulse I/O card powers (+5VDC or +12VDC) one single pulsing flow sensor and provides a pulse output. AGR3PRO, FLD3PRO or HM3 monitoring stations connect any flow sensors such as: electromagnetic; transit-time and mechanical.

**Compatible sensors:**

- SDE1 electromagnetic insert flow sensor
- Propeller meters
- Full bore magmeters

### TECHNICAL SPECIFICATIONS

- Digital input: 1 x Frequency input, range 0-1000Hz, accuracy 0.5 Hz  
Switched sensor power: +5 VDC (50mA limit) or +12VDC (1A limit)  
Digital output: 1 x voltage free contact, 10Hz



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## SDI12 - MASTER CARD

The SDI-12 Master card enables AGR3PRO, FLD3PRO or HM3 monitoring stations to control and log SDI-12 sensors array up to 10 units. Via serial bus with SDI12 protocol.

### Compatible sensors:

- Multi-parameter water quality probe and transmitter
- Level sensors (eg. storage, fuel tank, channel level)
- Water quality sensors (eg. pH,DO/EC)
- Weather sensors (eg. rainfall, wind speed & direction)

### TECHNICAL SPECIFICATIONS

Inputs: SDI-12 V1.3 compliant  
Sensor Power: 12VDC supply



## SIMOD - FLOSI CARD

The FloSI card provides an SDI-12 or ModBus output to interface one or more AGR3PRO, FLD3PRO or HM3 logger station to SCADA systems and radio networks.

### TECHNICAL SPECIFICATIONS

Outputs: MODBUS RTU, RS232, RS485 SDI-12  
V1.3 compliant ASCII, RS232



## MWC - WEBCOMM CARD

MWC WebComm card provides to all AGR3PRO, FLD3PRO or HM3 monitoring stations the ability to auto uploading internal logged data to the web-based Data Server via mobile telephone networks.

The Data Server allows easy access for retrieval of field data. Unlike "conventional" data services.

Please contact us for further details.



- Network Interface:** mobile telephony to access the internet through GSM & 3G networks.
- Data Format:** uploads and stores data in an unencrypted plain text format.
- Data Upload:**  
-All channels and their values are uploaded.  
-Configurable upload scheduling: 5, 10, 15, 30 minutes; 1, 6, 12, 24 hours; 1, 2, 4 weeks.
- Data Storage:**  
-Limited to 500Mb per site (for a single station with one WebComm card installed).  
-There is no limit to the number of sites that a single user can have.
- Data Retention:** Data is stored for a minimum of 12 months (from initial upload), after which it will be deleted.
- Website Specifications:**
- Functionality:**
- Password protection;
  - Data "site", setup and maintenance;
  - View site data (date/time selection available);
  - View latest data record;
  - Download site data (date/time selection available) in \*.csv format;
  - Multiple "site access". Primary user can designate "n" secondary users
  - Email/SMS alerts (paid subscription service)



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