XCI - MULTIPURPOSE ACQUISITION CARDS

The XCI (multiple acquisition card) are for the FLD3PRO, AGR3PRO and HM3 allows the user 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 Doppler ultrasonic area/velocity sensor for open channel partial filled

- SDV1   Doppler ultrasonic velocity sensor for open channel partial filled
Each Doppler ultrasonic velocity sensor has 10, 20, 30, 50 cable with
9-pin d-connector that plugs in to 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 external 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. This gives an AGR3PRO, FLD3PRO or HM3 device the ability to connect to flow sensors that utilize this measuring technologies 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

SDI12 - MASTER CARD

The SDI-12 Master card provides an AGR3PRO, FLD3PRO or HM3 device with the ability 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

The WebComm card (MWC) provides all devices (AGR3PRO, FLD3PRO or HM3) the ability to automatically upload 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 device with a WebComm card installed).
	-There is no limit to the number of sites 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 secondary "users"
	• Email/SMS alerts (paid subscription service)