



## PSC-ANY-EXT - Anybus Carrier Interface Unit

### Interface between Analog Programmable Power Supply and Industrial Field Bus via Anybus module

The PSC-ANY extends the programming and monitoring capabilities of power supplies equipped with an analog programming interface. By inserting a pluggable Anybus® CompactCom M40 module from HMS, the PSC-ANY enables communication via a specific industrial fieldbus protocol.

Configuration of both the PSC-ANY and the Anybus module is done through the PSC-ANY's USB interface, using either a console or SCPI commands. The USB interface may also be used to program and monitor the power supply directly, even when no Anybus module is installed.

The picture above shows a PSC-ANY unit with an EtherCAT Anybus module inserted. Please note that the PSC-ANY is delivered without an Anybus module. These modules can be ordered separately, either from Delta Elektronika or directly from HMS.

#### Features

- Power Supply Programming & Monitoring resolution: 16 bit
- Programming and monitoring of all available pins on the analog programming interface of the power supply unit
- Read-back of status signals, CC mode, current or voltage limit, DC fail, AC fail, Over Temperature, PSOL, and more
- Programming & Monitoring accuracy  $\pm 0.01\%$
- Software Calibration
- SCPI commands
- User console

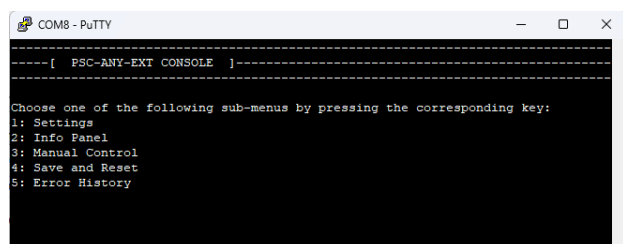
#### Functionalities

- Carrier for Anybus M40 modules, each enabling a different protocol
- Interface between Anybus modules and analog programmed power supply
- Power supply programming of analog programmed power supply
- Power supply monitoring of analog programmed power supply
- USB SCPI programming and monitoring of analog programmed power supply

#### Supported Anybus modules and protocols

- CANopen (AB6613)
- EtherCAT (AB6607)
- EtherNet/IP (AB6604)
- Modbus-TCP (AB6603)
- PROFIBUS (AB6600)
- PROFINET (AB6605)

## User Console



- Configuration of the PSC-ANY module
- Configuration of the Anybus M40 module
- Software calibration
- Manual power supply programming and monitoring
- Error history
- Saving and loading settings

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## Analog inputs and outputs

The analog in- and outputs have a 16 bits resolution. Offset and full scale can be software calibrated.

Input linearity error is +/- 2 LSB, output linearity error is +/- 1 LSB. TC typical is 10 ppm / °C for Vprog, Cprog and Vmon, and 20 ppm / °C for Cmon.

Each analog in- and output can be set or read. Analog voltages are standardized on 0 – 5 VDC (with optional Power Sink  $I_{mon} = -5 - 5$  VDC). Analog in- and outputs have a common zero.

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## Software & Accessories

Example software and manual in PDF format can be downloaded from [our website](#).

The PSC-ANY-EXT module is supplied with a Analog Programming Cable, USB Cable, Line Cord, and DIN-rail adapter.

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## Unit Specifications

### Enclosure

Dimensions (h x w x d ): 91 x 100 x 125 mm

Weight 0.6 kg

Degree of protection: IP20

### Input Power

Rated voltage: 230VAC, wide range 98 - 264 VAC, 48 - 62 Hz

Power consumption: 15 W

Hold-up time @ 110 VAC : 80 ms, @ 230 VAC : 300 ms

### Insulation

Mains input to case: 2500 VAC

Analog in- and outputs to case: 600 VDC

Anybus to Analog in- and outputs: 600 VDC

### EMC\*

Emission : EN 61326-1, class B equipment

(for use in domestic establishments)

Immunity : EN 61326-1, equipment for use in industrial and domestic establishments

\*excluding the Anybus COM40 module

## Specifications

| Analog Programming (CON E)                                                   | CV                                                                                                                                                                                                                                                                             | CC                                    |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>Programming output</b><br>output range<br>accuracy<br>temp. coeff. Offset | 0 – 5 V<br>± 0.01%<br>10 µV / °C                                                                                                                                                                                                                                               | 0 – 5 V<br>± 0.01%<br>10 µV / °C      |
| <b>Monitoring input</b><br>input range<br>accuracy<br>temp. coeff. Offset    | 0 – 5 V<br>± 0.01%<br>40 µV / °C                                                                                                                                                                                                                                               | – 5 to + 5 V<br>± 0.01%<br>40 µV / °C |
| <b>Reference voltage</b><br>on prog. Connector                               | <i>The reference voltage pin on the PSC-ANY-EXT is not used.</i>                                                                                                                                                                                                               |                                       |
| <b>Safety</b>                                                                | EN 61010-1                                                                                                                                                                                                                                                                     |                                       |
| <b>Operating Temperature</b>                                                 | – 20 to + 50 °C                                                                                                                                                                                                                                                                |                                       |
| <b>Humidity</b>                                                              | max. 95% RH, non condensing, up to 40 °C<br>max. 75% RH, non condensing, up to 50 °C                                                                                                                                                                                           |                                       |
| <b>Storage Temperature</b>                                                   | –40 – 70 °C                                                                                                                                                                                                                                                                    |                                       |
| <b>Mounting</b>                                                              | Standard rubber feet, front plate mounting option and rack mounted option.                                                                                                                                                                                                     |                                       |
| <b>Programming connector</b>                                                 | 15 pole D-connector (female)                                                                                                                                                                                                                                                   |                                       |
| <b>USB (CON B)</b>                                                           | USB Type B 2.0 5V                                                                                                                                                                                                                                                              |                                       |
| <b>Anybus Slot</b>                                                           | Compatible with the following Anybus COM 40 modules:<br>PROFIBUS<br>PROFINET-IRT<br>CANopen<br>Ethernet/IP<br>EtherCAT<br>Modbus-TCP<br><br>Refer to the 'Network Guide' of each module on <a href="https://www.hms-networks.com">hms-networks.com</a> for the specifications. |                                       |

CV = Constant Voltage

CC = Constant Current

*The information in this document is subject to change without notice.*