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PSC-ANY-EXT - Anybus Carrier Interface Unit

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

The PSC-ANY's main function is to extend the programming and monitoring capabilities of power supplies with an analog programming interface. Pluggable Anybus® modules from HMS enable interfacing with a dedicated industrial fieldbus protocol via the PSC-ANY. The PSC-ANY and Anybus module are configured through the USB interface of the PSC-ANY using a user console or SCPI. Additionally, the USB interface of the PSC-ANY can be used to program the power supply, without the need for an Anybus module being plugged into the PSC-ANY unit.The picture above shows the PSC-ANY unit with an EtherCAT Anybus module being plugged in. The PSC-ANY does not come with an Anybus module included. They can be bought directly from us or through a third party.

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 ± 0.01%
- Software Calibration
- SCPI commands
- User console

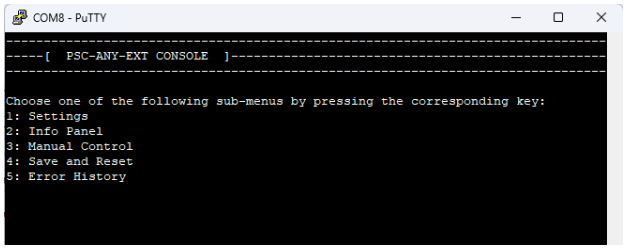
Functionalities

- 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
- EtherCAT
- EtherNet/IP
- Modbus-TCP
- PROFIBUS
- PROFINET

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

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.

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.

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

CV = Constant Voltage
CC = Constant Current

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