



Universal Data Center UDC 810 Interface

Powerful and Reliable Connectivity for WinGPC Unity



New Flexibility in Data Acquisition

The PSS Universal Data Center UDC 810 is a multiple channel chromatography interface that allows reliable and secure data acquisition from multiple instruments simultaneously.

It converts the analog signal from analytical instruments to digital data and transmits it to the host computer for further processing via serial, USB and LAN/WAN connections.

It employs an independent buffer for methods and data to ensure uninterrupted data transfer even if the computer hangs.

Universal Connectivity

The Universal Data Center UDC 810 can read data from all GPC related detectors which provide analog output signals.

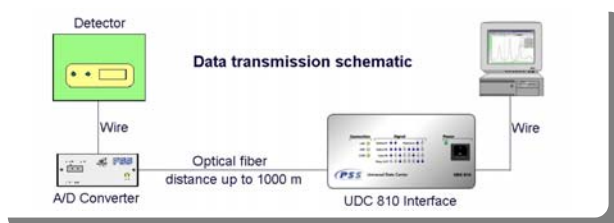
Up to 30 channels (detectors) for up to 4 chromatographs can be acquired and processed.

Main features

- reliable and secure data capture
- integrated buffer for enhanced security
- real-time control
- flexible connectivity via COM, USB or LAN ports
- 8 input relays and 8 programmable output relays with full galvanic separation
- 2 independent internal A/D channels
- increased channel expansion with fiber optics cards (up to 8 channels)
- easy expand ability by daisy-chaining of UDC interfaces
- comprehensive UDC validation and verification
- integrated test and training data for on-demand computer based learning
- easy service and maintenance
- complete life-cycle and compliance documentation
- compatible with PSS WinGPC 6.x, full support with WinGPC Unity

Technical tidbits

The PSS Universal Data Center can acquire all analog signals with 1 μ V resolution. The input voltage ranges from -2.5V up to 7.5V with 24 bit resolution without setting ranges or attenuation. Two A/D channels are built in, more can be added using the 24bit A/D converter modules which employ highest data integrity via optical data transmission. Signal distances (AD converter to computer) of up to 1000 m via optical fiber connections avoid noisy signals or signal loss.



Trigger signals can be received (e.g. injection start or fraction collector advance) and timed events generated (e.g. valve switching, fraction collection, sensor control) using relay input / output with complete galvanic separation. Data transmission from UDC 810 to host computer can be established either via legacy RS232 or USB and Ethernet connection. WAN option will make any data available company-wide on the Internet/ Extranet.

Easy Setup and Maintenance

The design of UDC 810 allows easy plug & play installation and operation. It automatically

offers the correct computer link and can be conveniently identified by its location, alias name, serial number or MAC address.

Comprehensive power on self tests ensure proper and safe operation even in the most demanding environments.

Extensive self-validation tests perform a full-featured

checkup and print comprehensive verification reports.

No administration is necessary. A DHCP connection or a

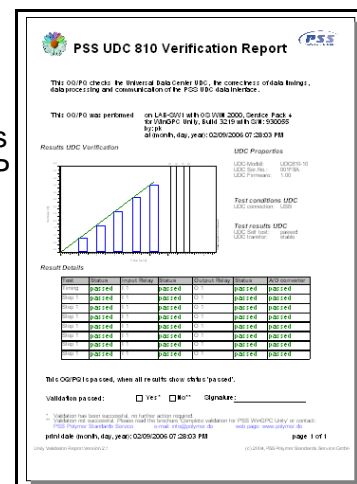
fixed IP address can be specified. UDC 810 was

designed and tested for

continuous operation. It meets

all relevant safety standards and EU/IEC directives. All user and maintenance

operations are documented in easy-to-follow standard operating procedures.



On-demand Computer-Based User Training

Offline in-house user training is always possible with training data being integrated into the UDC 810. They can be transferred into the host computer and processed like real time data. This helps to train users using standardized training materials and standardized procedures.

Technical specifications		Order information
A/D Converter	continuously integrating, 100% area recovery	
resolution	24bit, 1 V (typical)	
analog in	-2.5V ... 7.5V	401-0005
	-0.5V ... 1.5V	401-0006
mains	85 - 240 V, 50 - 60 Hz AC	
UDC 810 Interface		
standard signal input	2 analog channels	401-0018
optional	4 optical independent channels	401-0019
	8 optical independent channels	401-0020
internal buffer	512 kB RAM	
computer link	RS232, USB, LAN/WAN	
Digital I/O	8 input relays, 8 output relays	
mains	85 - 240 V, 50 - 60 Hz AC	

Product names are protected by manufacturers. Missing marks do not necessarily mean that they are free for use. The information in this publication is subject to change without notice.