Data sheet

mPDS 5

Applying the mPDS 5 evaluation unit all Anton Paar sensors such as L-Dens, L-Sonic, L-Com, L-Rix, Oxy, L-Col, etc can be connected. Raw values from transducers are converted to customer and application-specific concentration results. Touch screen, modularity, many field bus interfaces, the powerful embedded PC, USB, EtherNet (LAN) meet the requirements of modern process industry.



Typical applications:

- Beer Monitor: Alcohol and Original extract in the brewing process
- Cobrix: °Brix of soft drinks, juices and liquid sugar CO2 in carbonated beverages
- Alcohol in distilleries
- Concentration of acids, bases and other chemical solutions
- Density, Specific Gravity and API gravity in petroleum industry

Features:

- 8.4" TFT color touch screen, 640 x 480 pixel
- Intuitive operation like on a Windows PC
- Choice of several screen layouts:
  - small and large numerical output fields
  - graphical output fields
- Limit monitoring directly on the screen
- All concentration results can be monitored independently
- Easy adjustment with reference values
- Flexible access control by defining users with different user levels
- Ethernet (LAN) interface to PC
- Flexible configuration with up to 5 modules (e.g. analog inputs for additional external transmitters).
- Option: Davis 5 PC software for remote control and reporting

Table 1: Technical specifications

CPU board	EtherNet (LAN) interface (Davis 5) 2 USB interfaces: backup, update DC 24 V connection CAN interface for all Anton Paar CAN-sensors
Transducer board only for old density/sound velocity transducers	Transd. 1/Transd. 2: DPR(n), SPR(n), DSR(n) 2 analog inputs: 4 to 20 mA active/passive 12 digital inputs/outputs or counter: e.g. filler stop, bottle counter, limit alarms
Input/Output board	4 analog outputs: connection to PLC 3 analog inputs: 4 to 20 mA active/passive 12 digital inputs/outputs or counter: e.g. filler stop, bottle counter, product selector 2 relay outputs: alarms
FIeldbus boards	PROFIBUS DP, PROFINET IO, EtherNet/IP, DeviceNet and Modbus TCP interface
UV/Vis board	RS-485 interface - exclusively for one L-Col sensor
LED board	Digital outputs exclusively for the Cobrix 5500/5600 (alarm lamp)
LCD	8.4" TFT, color touch screen: 640 x480 pixel
Power supply	DC 24 V -15 %/ +20 % (UL Class 2)
Power consumption	max. 60 W (depending on the configuration)
Ambient temperature	+ 5 °C to + 40 °C (+ 41 °F to + 104 °F)
Air humidity	0 to 90 % relative humidity, non-condensing
Pollution degree	2
Altitude	maximum 3000 m (9000 feet)
Radiated emissions	Class A. This equipment can generate radiated disturbances in residential environment.
UL/CSA certificates	ANSI/UL 61010-1 CAN/CSA C22.2
Dimensions (W x H x D)	275 x 215 x 240 mm (10.83 x 8.47 x 9.45 inches)
Panel cut out (W x H)	249 x 189 mm (9.81 x 7.45 inches)
Degree of Protection	IP54 from the front (only after proper installation in a control panel, switch cabinet,...)
Weight	max. 4.6 kg

Input and Output Specifications

All in- and outputs (including relay outputs) connected to mPDS 5 have to accord with PELV (protective extra-low voltage) of EN 61140 or SELV specification of EN 60950, i.e. maximum voltage U_{max} must not exceed 24 V + 20 % = 28.8 V and a maximum current Imax = 0.7 A (except CPU power connection).

Dimensions:



