

8220 Data Capture Unit

Electronic fueling data acquisition, monitoring and automation device for use on fueling equipment, such as fuel trucks or hydrant carts.



Highlights

Wired Option

- 2 pulse count channels
- 4 digital I/O channels, configurable as input or output
- 3-wire RTD input
- 4-20 mA input
- IP66 enclosure
- Connects up to two third-party pulse transmitters, such as Liquid Controls LectroCount® LCR-II® or Veeder-Root® EMR³™ Electronic Meter Registers

Wireless Option

- 2 digital input channels for valve status monitoring
- 4 digital I/O channels, configurable as input or output, for valve control
- 3-wire RTD input
- 4-20 mA input
- IP66 enclosure

Applications

Wired Option:

The 8220 DCU is mounted on a fueling vehicle and is connected to third-party pulse transmitters and an IntoPlane client PC. The 8220 DCU provides meter value data upon request to the PC via an RS-232 connection. FuelsManager uses this data to show the total volume pumped.

Wireless Option:

The 8220 DCU is equipped with a miniature radio transceiver and antenna, which allows it to receive commands from and provide status information to a remote computer without a wired RS-232 connection.



Technical Specifications

Safety Approvals (Wired Option Only)

FM Approvals (FM)	Class I, Division 2, Groups A – D
Canadian Standards Association (CSA)	Class I, Division 2, Groups A – D

Physical

Weight	3.5 lbs (1.587 kg) net 4.5 lbs (2.041 kg) shipping
Enclosure	Explosion proof die-cast aluminium Rated IP66 (NEMA 4)

Environmental

Operating temperature	-4°F and +185°F (-20°C and +85°C)
Operating humidity	0 to 95% relative humidity non-condensing

Power

Input Power	8-36 VDC
Communication	EIA232-C/EIA232-C RTS/EIA232-C CTS

Inputs and Outputs

Digital I/O	4 Channels
Pulse Input	2 Channels 3 to 30 VDC voltage range
RTD Input	3-Wire Platinum or Copper Resistive Temperature Device
One 4-20 mA Analog Input	The 4-20 mA input provides up to 21 bits (effective resolution) and up to 10 Hz throughput

Pulse Inputs

Pulse Inputs Maximum	2
Pulse Voltage Range	30to 30 VDC
Pulse Frequency Limit	30 KHz

Order Codes

8220	Enclosure Options	
	A0	IP66, for Non_Hazardous Areas
	A1	Factory Mutual Approvals (FM) Class I, Division 2, ABCD, wired
		Canadian Standards Association (CSA) Class I, Division 2, ABCD, wired
	A9	Special
DCU Options		
	B0	None
	B1	Wireless Radio Communications Not available with A1)
N8220-		Complete product designation

Note! The wireless option of the 8220 DCU has not been approved by FM Approvals (FM) or the Canadian Standards Association (CSA).

