

# 8300 TankGate Interface

Collect and transmit data from multiple storage tanks to a central system or host using a single tank gauge interface



## Highlights

- Connects to various manufacturers' instruments through industry standard protocols - reducing equipment required for a single system
- Fully compatible with FuelsManager® - tank inventory management made easy
- 8300 TGI and tank gauging instrument configuration data can be exported to other applications, such as Microsoft Excel® or Access® - documenting all tank gauge equipment
- All information obtained can be communicated to the host system for inventory, alarm and control purposes through the industry standard MODBUS™ protocol

## Installation Guidelines

The 8300 TGI can be installed in a variety of industrial environments when placed in an optional NEMA 4 Enclosure.

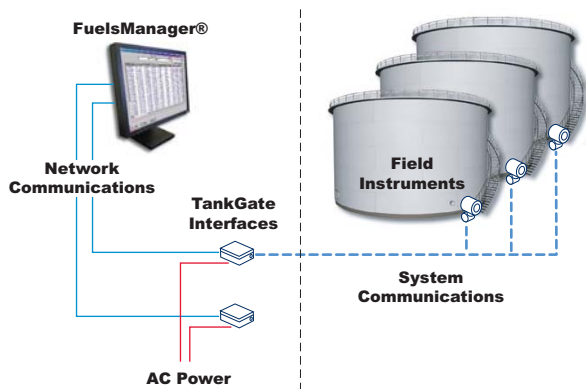
## Applications

The 8300 series TankGate Interface (TGI) acts as a tank gauge interface for data acquisition and host gateway for tank farm, pipeline or refinery applications. Through the use of plug-in interface modules, the 8300 TGI can receive various types of measured data from tank gauging instruments, such as level, temperature, density, water level or alarms.



## Configuration and Programming

Remote programming can be accomplished from the host or locally using a PC with the Windows based configuration program ViewRTU. This tool simplifies configuration and diagnostics, allowing uploading of final equipment configurations. Reports can also be generated via a built-in function to assist in documentation



## Technical Specifications

### Operating Conditions

<b>Operating temperature</b>	-40 °F to +158 °F (-40 °C to +70 °C)
<b>Humidity</b>	5 to 95% (non-condensing)

### Host Communication

<b>Ports</b>	2
<b>Type</b>	Com #0 : RS-232C Com #1 : RS-232C / RS-485
<b>Baud rate</b>	9600 baud
<b>Protocol</b>	MODBUS™ and E+H RTU protocol
<b>Mode</b>	RTU mode, master and slave
<b>Media access</b>	Master/Slave

### Power

<b>Supply voltage</b>	100 to 240 VAC 50/60Hz
<b>Power consumption</b>	50 VA max. @ 110/220 VAC (500 mA)
<b>Surge protection</b>	ANSI/IEEE standards Gas Discharge Tubes (GDTs) and clamping diodes on all field inputs, power supply inputs and communications channels

### Mechanical Construction

<b>Dimensions</b>	8.03 in x 5.51 in x 2.80 in (204 mm x 140 mm x 71 mm)
<b>Material</b>	Aluminum powder coated
<b>Mounting</b>	Wall mounted
<b>Terminals</b>	Plug-in type with screw connections

### Certifications and Approval

CE
----

### Optional Enclosures

Order Code	Description
140061563	16x16x6 in.
140061214	16x16x6 in. with 48VDC supply

\*Gauge dependent

### Order Codes

10	Interface Module	
032	Dual RS-485	MODBUS™ Communications Interface Module
036	Dual RS-485	GSI ASCII Communications Interface Module
101	Varec Mark/Space Micro 4-wire (Varec 1800, 1900, 6500)	Interface Module
111	Current Loop (Whessoe Bus)	Interface Module
112	Current Loop (GPE)	Interface Module
120	SAAB (TRL/2)	Interface Module
140	Enraf (811, 802/812, 854, 873)	Interface Module
150	L&J Tankway (MCG 1000, MCG 1500, MCG 2000)	Interface Module
161	Prime Measurement (3500 ATG)	Interface Module
171	Dual RS-232	Veeder Root (TLS 350) Interface Module
20	Enclosure	
A	No Enclosure (Note 1)	
B	16x16x6 inch NEMA 4 enclosure	
30	Power Supply	
0	No DC Power Supply (Note 1, 2)	
1	120VAC input, 48VDC, 1 Amp	Power Supply (Note 3)
2	240VAC input, 48VDC, 1 Amp	Power Supply (Note 3)
3	120VAC input, 24VDC, 1 Amp	Power Supply (Note 3, 4)
4	240VAC input, 24VDC, 1 Amp	Power Supply (Note 3, 4)
N83	Complete product designation	

**Note! 1:** If 'No Enclosure' is selected, then 'No DC Power Supply' must be selected.

**Note! 2:** Not available for Mark/Space or Current Loop Interface Modules unless 'No Enclosure' option selected

**Note! 3:** Not available for SAAB, Enraf, L&J Tankway, Prime Measurement, or Veeder Root (TLS 350) Interface Modules

**Note! 4:** Only available with Dual RS 485 Interface Modules with enclosure

