

**TFT32 Tank Farm Level Transmitter**

Approximate shipping weight: 5 lbs / 2.2 kg

Model **TFT32 - - - -**

**TFT32 STANDARD FEATURES:**

- enclosure - watertight, dust tight NEMA4X (IP67) polycarbonate
- programming - built-in 2 button keypad
- calibration - Level in inches or cm
- display - large 4-digit LCD - inches, cm or percent
- temperature compensation - automatic with ultrasonic sensors
- output - RS485, selectable baud rates from 2400 to 19200
- 1 signal Relay - 1 ampere, programmable for alarm, ON/OFF pump control, (plus temperature or echo loss with ultrasonic sensors)
- power input - 24VDC, 120mA max.
- electrical surge protection - sensor, power input and RS485
- 1 Manual - Installation and Operation

<b>TRANSMITTER- Power Input</b>		
Standard 24VDC		C
100 - 160VAC 50/60Hz		A
180 - 260VAC 50/60Hz		B
<b>ELECTRONICS PROTECTION</b>		
Standard - no circuit board coating		1
Conformal Coating ("Tropicalized") for moist atmospheres		2
<b>INSTRUMENT CONFIGURATION</b>		
ULTRASONIC (select from Greyline models listed under Sensor Options)		A
4-20mA SOURCE (supports loop powered, 2-wire 4-20mA transmitters)		B
4-20mA SINK (for separately powered 4-20mA signal inputs)		C
<b>INTRINSIC SAFETY</b>		
Standard (General Purpose - not Intrinsically Safe)		1
ISB Intrinsic Safety Barrier for any Ultrasonic PZ Sensor rated Class I, Div. I,II, Groups C,D,E,F,G hazardous locations (larger enclosure used)		2

**GENERAL OPTIONS AND ACCESSORIES**

QTY	CODE	DESCRIPTION
	USB-RS485	RS485 to USB Converter – to connect RS485 network to a PC
	NM-DB9M/25M	Null Modem Adaptor – to connect RS232 cable to a Modem
	A-1000-AI	Power Supply/Converter: 30W, 115VAC in, 24VDC out (powers up to 10 TFT32 Transmitters), RS232/RS485 Converter
	A-1000-EI	Power Supply/Converter: 30W, 220VAC in, 24VDC out (powers up to 10 TFT32 Transmitters), RS232/RS485 Converter
	PS150-AI	Power Supply - 150W, 115VAC 50/60Hz Input, 24VDC Output in NEMA4X/IP66 enclosure (powers up to 32 TFT32 Transmitters)
	PS150-EI	Power Supply - 150W, 220VAC 50/60Hz Input, 24VDC Output in NEMA4X/IP66 enclosure (powers up to 32 TFT32 Transmitters)
	RB12-24V	Relay Board - 12 programmable Relays, 5 amp SPDT, 24VDC power input, RS485 input
	SC-18AWG	RS485 Cable, 4-conductor shielded, 18AWG, max length 10,000 ft (3050m)
	SNUB	Snubber- Noise Suppressor for Relay
	PM2	Panel Mount Kit - mounts standard enclosure in panel
	PM2L	Panel Mount Kit - for larger enclosure with Intrinsic Safety option
	MNL	Additional Manuals (one supplied with each instrument)
	SP3	Lightning/Surge Protection for PC, in NEMA4 steel enclosure
	TFS	Tank Farm Supervisor - PC Software displays and datalogs up to 32 TFT32 Transmitters (runs under Windows 3.1+ Windows 95 and NT)
	TFC	Tank Farm Client Viewer - LAN software version displays and datalogs TFT32 network - must be used with TFS Supervisor software - purchase license permits multiple copies on one LAN by one Customer

**SENSOR OPTIONS**

QTY	CODE	DESCRIPTION	
<b>ULTRASONIC - with TFT32 configured for Ultrasonic Sensor input (A)</b>			
	PZ32T	PVC and Teflon (32 ft / 10 m range on liquids) 25 ft / 7.6 m cable	
	PZ32TE	All Teflon (32 ft/10m range on liquids), 25 ft/ 7.6 m cable	
	PZ34	(16" / 406.4 mm deadband, 32 ft / 10 m range on liquids)	
	PZ34T4F	Flange Mount, 4" with Teflon face (32 ft/10m range)	
	PZ34T6F	Flange Mount, 6" with Teflon face (32 ft/10m range)	
	PZ34T8F	Flange Mount, 8" with Teflon face (32 ft/10m range)	
	PZ52T	PVC and Teflon (50 ft/15.6 m range), 50 ft / 15 m cable	
	PZ15	PVC (8" / 203.2 mm deadband, 15' / 4.57 m Max. range)	
	PZ12T3F	Flange Mount 3" Sched 80 PVC with Teflon face (12' / 3.66 m range)	
	PZ12T4F	Flange Mount 4" Sched 80 PVC with Teflon face (12' / 3.66 m range)	
	PZ12T6F	Flange Mount 6" Sched 80 PVC with Teflon face (12' / 3.66 m range)	
	PZ12T8F	Flange Mount 8" Sched 80 PVC with Teflon face (12' / 3.66 m range)	
	XC	Extra Sensor Cable - Ultrasonic, RG62AU coaxial up to 500 ft / 152 m	
	JB	Sensor Cable Junction Box	
	PZS	Sensor Sunscreen (for Ultrasonic sensor exposed to sunlight)	
	AK10	Sensor Aiming Kit	
<b>PRESSURE - with TFT32 configured for loop powered 4-20mA SINK input (C)</b>			
	PS11S	Submersible 5 psi (11 ft) / 0.3 bar (3 m), 20 ft / 6 m cable	
	PS11T	1/4" Threaded 5 psi (11 ft) / 0.3 bar (3 m), 2 ft / 0.6 m cable	
	PS17S	Submersible 7.5 psi (17 ft) / 0.5 bar (5 m), 23 ft / 7 m cable	
	PS17T	1/4" Threaded 7.5 psi (17 ft) / 0.5 bar (5 m), 2 ft / 0.6 m cable	
	PS23S	Submersible 10 psi (23 ft) / 0.67 bar (7 m), 30 ft / 9 m cable	
	PS23T	1/4" Threaded 10 psi (23 ft) / 0.67 bar (7 m), 2 ft / 0.6 m cable	
	PS35S	Submersible 15 psi (35 ft) / 1.0 bar (10 m), 40 ft / 12 m cable	
	PS35T	1/4" Threaded 15 psi (35 ft) / 1.0 bar (10 m), 2 ft / 0.6 m cable	
	PS46S	Submersible 20 psi (46 ft) / 1.3 bar (14 m), 55 ft / 17 m cable	
	PS46T	1/4" Threaded 20 psi (46 ft) / 1.3 bar (14 m), 2 ft / 0.6 m cable	
	PS69S	Submersible 30 psi (69 ft) / 2.0 bar (21 m), 75 ft / 23 m cable	
	PS69T	1/4" Threaded 30 psi (69 ft) / 2.0 bar (21 m), 2 ft / 0.6 m cable	
	PS102S	Submersible 44 psi (102 ft) / 3.0 bar (31 m), 105 ft / 32 m cable	
	PS115T	1/4" Threaded 50 psi (115 ft) / 3.45 bar (35 m), 2 ft / 0.6 m cable	
	PS170S	Submersible 72 psi (170 ft) / 5.0 bar (52 m), 174 ft / 53 m cable	
	PS173T	1/4" Threaded 75 psi (173 ft) / 5.2 bar (52.7 m), 2 ft / 0.6 m cable	
	XCPT	Extra Sensor Cable - for Threaded Pressure models, 2-conductor, 18AWG shielded	
	XCPS	Extra Sensor Cable - for Submersible Pressure models	
	JB	Sensor Cable Junction Box	