

SmartTank™ ST95 LTE Uplink



Class 1 Div 1 Certified

Redefine Tank Monitoring

The SmartTank™ ST95 series introduces the latest ST95 LTE Uplink, certified [intrinsically safe for Class 1 Division 1 Group D locations](#). This latest version of ST95 LTE Uplink redefines tank monitoring, offering unparalleled flexibility and convenience for tank managers. Now, you can choose your sensors for a specific installation or use existing ones already in use. [Ideal for a tank farm environment](#), this [scalable](#) device supports up to 32 additional ST95 client devices and allows tank managers to seamlessly monitor multiple sensors at once.

Universal Compatibility: Interfaces with industry-standard 4/20mA devices and is compatible with Programmable Controllers or similar devices.

Easy Installation: Pre-equipped with 50 feet of cable, ensures easy installation at suitable locations.

Advanced Connectivity for Efficiency: Useful for inventory management, asset control, or information exchange.

Installation Requirements

Secure Mounting: Mount the ST95 Uplink in a location shielded from potential external damage. Use the designated mounting kit for stability and protection.

Tank level gauge: The tank level gauge should adhere to the Industry Standard 4/20mA protocol and must operate within a 12V DC power range for compatibility with the ST95 Uplink.

Enhancing Tank Monitoring Efficiencies

The ST95 Uplink serves as a vital component in two distinct scenarios:

Existing Tank Level Monitor

Utilize the ST95 Uplink to tap into the 4/20mA signal of an existing tank level monitor on the target tank. This integration enables tank managers to have precise tank level information for seamless sharing on a designated website. It is suitable for deployment in Hazardous Locations classified as C1D1 Group D, ensuring reliable operation in challenging environments.

Existing tank level gauge

Employ the ST95 Uplink to establish telemetry connectivity with an operational tank's existing tank level gauge. This connection enables the transmission of real-time tank level data to the database, ensuring comprehensive monitoring and efficient data management.

Key Benefits

Hazardous Location Certification

Certified for use in Class 1, Division 1, Group D Locations.

Industry 4-20mA Standards

Direct installation of sensors meeting industry 4-20mA standards.

WLAN Connectivity

Supports up to 32 additional Client monitors via WLAN connectivity.

Real-Time Data

Provides up-to-the-minute readings.

Low-cost Cellular Technology

Utilizes low-cost cellular technology.

Secure and Reliable Access

Ensures secure and reliable access to tank information.

Radio Communication

Utilizes reliable Cat-1 radio communication on Verizon networks.



Integrated GPS functionality
Enables accurate asset tracking



Affordable Pricing
Offers a cost-effective solution with low monthly fee for each site



Battery life
Efficient battery usage reduces the need for frequent replacements



Easy installation
Ensures a hassle-free setup process for quick deployment

Hardware Specifications

Hazardous Classification: Class 1 Div. 1 Group D, Temperature Code T3C.

Weight: Without Sensor Assembly: 2.0 lbs. (0.91 kg)

Construction: ROHS Compliant

Enclosure: CPVC w/ Lexan Cover, Weather-proof, NEMA 4X/IP56, UL94V-0

Performance

Output Voltage: Nominally 21V +- 5%

Output Current: Rated from 0-50mA

Sensor: Intrinsically Safe 4-20 mA

Battery: 6V - SMARTank Battery Pack, P/N 394-00023

Expected Battery Life: Up to three years depending on website settings

Wireless Communications

Mode: LTE Digital Wireless Radio / Satellite

RF Approval: FCC Part 15 Approved

GPS Receiver: Internal Antenna, Optional External GSM Antenna

Cellular Specifications: LTE Cat-1 with 3G fall back (Verizon is LTE only)

Environmental

Operating Temperature:

-4°F to 104°F (-20°C to 40°C)

Storage Temperature:

-40°F to 185°F (-40°C to 85°C)

Control Drawings

Part #906-00020 | Installation Option #1

HAZARDOUS AREA
CLASS 1 | DIV 1 | GROUP D

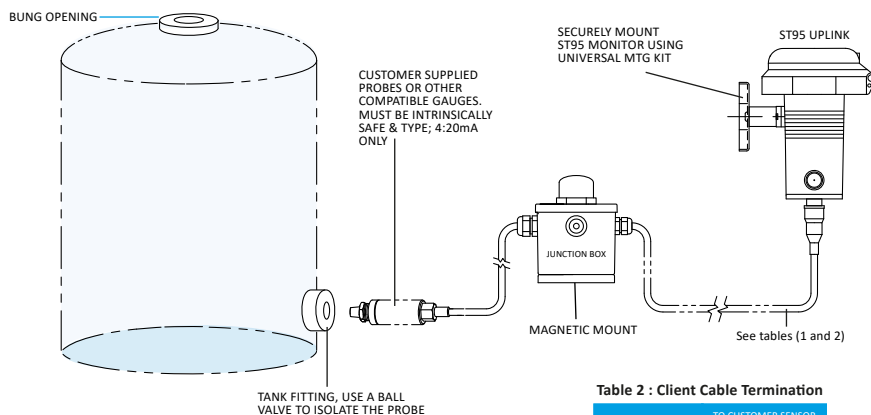


Table 1: Host Cable Termination

4/20 LOOP FUNCTION	TO CUSTOMER SENSOR USING AN UPLINK CABLE
Circuit 1 = 21V+	Orange
Circuit 1 = Input	Yellow
Circuit 1 = Ground	Black
Circuit 2 = Input	White
Circuit 2 = 21V+	Green
Circuit 2 = Input	Brown

Table 2: Client Cable Termination

4/20 LOOP FUNCTION	TO CUSTOMER SENSOR USING AN UPLINK CABLE
Circuit 1 - 21V+	Orange
Circuit 1 - Input	Yellow
Circuit 1 - Ground	Black

Control Drawings

Part #906-00020 | Installation Option #2

HAZARDOUS AREA
CLASS 1 | DIV 1 | GROUP D

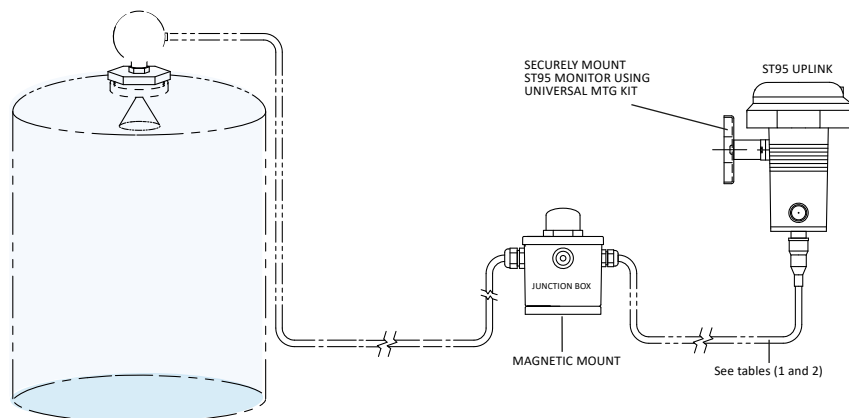


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