DIGI

DIGI CONNECT® TANK

Monitor tank level and location remotely to optimize operations

Digi Connect Tank is a fully integrated cellular-enabled tank level sensor providing remote access to deployed tanks, totes and containers. Part of the Digi Tank solutions offer, it leverages Digi Remote Manager® and integration services, enabling customers who own or manage large numbers of tanks to easily integrate into existing applications or work with 3rd party applications.
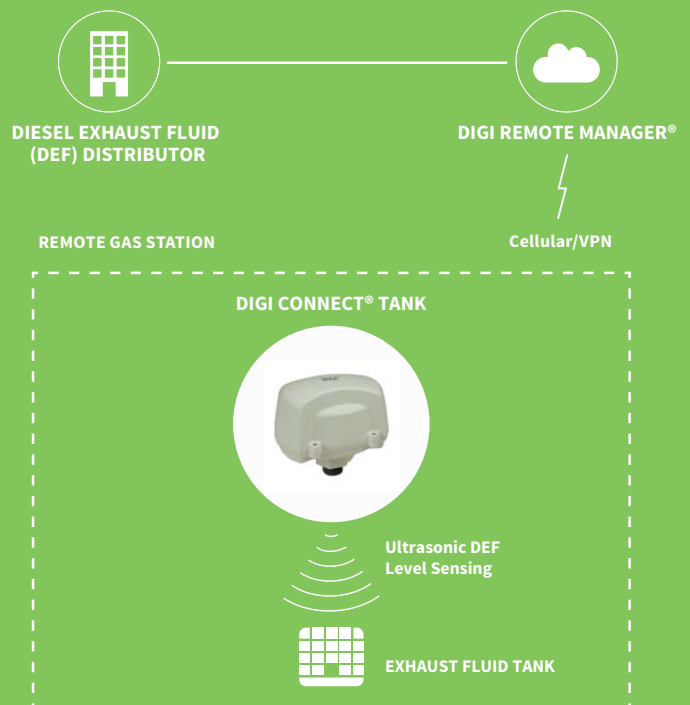
Digi Connect Tank provides logistical and operational optimization via tank level and location data. Customers can route feet and personnel efficiently, reduce transportation and fuel costs, and increase supply chain predictability.

Using 3G/2G cellular technologies, Digi Connect Tank can be installed in locations where network infrastructure may not available. Its small form factor, durable NEMA 4X enclosure, industry safety ratings and long-life battery make this product ideal for use in a broad range of tank applications.

BENEFITS

– Remote access to tanks located virtually anywhere

– Fully integrated sensor/long life-battery/ global cellular in NEMA 4X enclosure for broad tank application support

– Tank location and level provides logistical and operational optimization

  - Reduced transportation/fuel costs via efficient routing of fleet and personnel

  - Predictable and efficient supply chain management

– Integrated ultrasonic sensor for non-contact liquid level measurements

  - Includes temp/sound speed compensation

APPLICATION EXAMPLE

DIESEL EXHAUST FLUID (DEF) DISTRIBUTOR

DIGI REMOTE MANAGER®

REMOTE GAS STATION

Cellular/VPN

DIGI CONNECT® TANK

Ultrasonic DEF Level Sensing

EXHAUST FLUID TANK

TARGET APPLICATIONS

Cooking Oil Recycling   **Chemicals**   **Water/Waste Water**   **Waste Oil**   **Diesel Exhaust Fluid**

SPECIFICATIONS	Digi Connect® Tank	
WWAN		
CARRIERS	AT&T, International GSM Carriers*	
FREQUENCY BAND	North American Version: Dual Band UMTS/HSPA+ (850,1900 MHZ) International Version: Dual Band UMTS/HSPA+ (900/2100 MHZ) Dual-Band GSM (900/1800 MHZ) Global Version: Five Band UMTS/HSPA +(850/800,900,1900,2100 MHZ), Quad-GSM (850/900/1800/1900 MHZ)	
DATA RATE	HSDPA Cat. 10 / HSUPA Cat.6 data rates DL: max. 14.4 Mbps, UL: max. 5.76 Mbps >> EDGE class 12 data rates: DL: max. 237 kbps, UL: max. 237 kbps >> GPRS class 12 data rates DL: max. 85.6 kbps, UL: max. 85.6 kbps	
ANTENNA	Built-in	
SIM SLOTS	1	
SENSOR	**SHORT RANGE**	**MID RANGE**
MODEL	Massa M-300/150	Massa M-300/95
TYPE	Ultrasonic, built-in temperature/sound speed compensation	
RANGE	Range at -20˚ C to +65˚ C: 4 inches (100 mm) to 7 feet (2.1 meters) Range at -30˚ C to -20˚ C: 4 inches (100 mm) to 5 feet (1.5 meters)	Range at -20˚ C to +65˚ C: 1 feet (0.3meters) to 13 feet (4 meters) Range at -30˚ C to -20˚ C: 1 feet (0.3meters) to 12 feet (3.7 meters)
GPS/GLONASS		
CHANNELS	56	
TRACKING SENSITIVITY	GPS: -161 dBm; Glonass: -158 dBm	
TTFF (TYPICAL)	Cold Start: 30 seconds, Warm Start: 28 seconds; Glonass: Cold Start: 32s, Warm Start 25s	
HORIZONTAL ACCURACY	GPS: 2.5m; Glonass: 4m	
ANTENNA	Built-in	
MANAGEMENT		
CONFIGURATION & MANAGEMENT	Digi Remote Manager/Local USB to Serial CLI	
PROTOCOL	TCP	
POWER		
BATTERY	7.2V, 14.5 Ah, Lithium Thionyl Chloride, non-rechargeable, replaceable	
BATTERY LIFE	Approximately 2 years (@ 2 reads/transmits per day)	
ENVIRONMENTAL		
OPERATING TEMPERATURE	-30˚C to +65˚C (See range limitations in Sensor section above) -30˚C to +60˚C (for ATEX rated applications)	
STORAGE TEMPERATURE	-40˚ C to +85˚ C	
RELATIVE HUMIDITY	90% (Non-condensing after 90%)	
BATTERY DISCHARGE	<1%/year if stored at +30˚ C	
PHYSICAL		
DIMENSIONS (L X W X H)	7.0 in x 5.15 in x 6.0 in (17.8 cm x 12.9 cm x 15 cm)	
WEIGHT	1.25 lbs	
LEDS	Battery, Network	
ENCLOSURE MATERIAL	Valox (Note: Massa sensor is PVC/PPA)	
ENCLOSURE RATING	NEMA 4X	
MOUNTING	1" NPT	

* For Verizon and Sprint availability please contact Digi

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SPECIFICATIONS — Digi Connect® Tank

REGULATORY APPROVALS

EMISSIONS	FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B
IMMUNITY	EN55024: 2010
SAFETY	UL60950-1, CAN/CSA C22.2 No. 60950-1-01, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013 and EN 60950-22:2006; C1D2, ANSI/ISA 12.12.01-2013, CSA C22.2 No. 213-M1987 ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, eII 3 G Ex nA nC IIC T6 Gc

WARRANTY

PRODUCT WARRANTY	3 years, excluding battery

PART NUMBERS	DESCRIPTION
CTANK-A511	Digi Connect Tank, Short Range Ultrasonic sensor, North America HSPA, with GPS
CTANK-A521	Digi Connect Tank, Mid Range Ultrasonic sensor, North America HSPA, with GPS
CTANK-A611	Digi Connect Tank, Short Range Ultrasonic sensor, International HSPA, with GPS
CTANK-A621	Digi Connect Tank, Mid Range Ultrasonic sensor, International HSPA, with GPS
CTANK-A711	Digi Connect Tank, Short Range Ultrasonic sensor, Global HSPA, with GPS
CTANK-A721	Digi Connect Tank, Mid Range Ultrasonic sensor, Global HSPA, with GPS
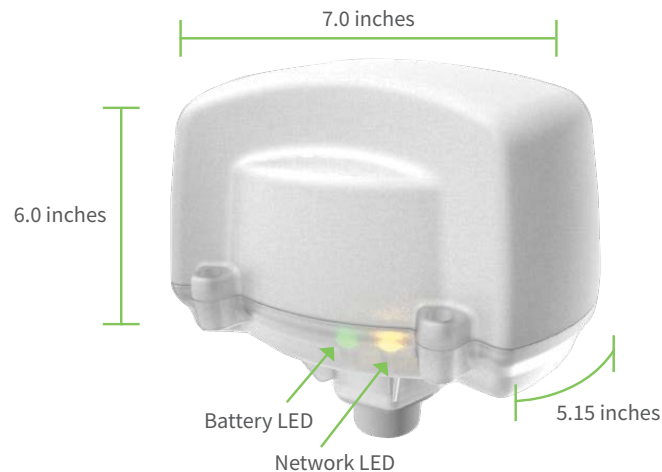
7.0 inches

6.0 inches

5.15 inches

Battery LED

Network LED

91001796
B5/717

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