

BATTERY POWERED, **CELLULAR GATEWAY FOR SENSOR** MONITORING



## **DIGI CONNECT® SENSOR+**

Easy-to-install and roll-out ready, battery-powered cellular gateway solution

Digi Connect Sensor+ is a fully integrated, battery powered cellular gateway with I/O for connecting to a wide range of external sensors. Designed to work in rugged industrial environments, the Connect Sensor+ is the ideal solution for companies looking to add remote monitoring and diagnostics in places where power is not easily available. Its easy installation, reliability and low data usage make remote monitoring possible in areas where it was previously cost prohibitive.

Local protocol support allows the Connect Sensor+ to communicate with Wired HART and/or Modbus sensors and capture sensor diagnostics along with data. This enables users to not only monitor their data but also remotely diagnose the health of their sensors. Digi Connect Sensor+ leverages Digi Remote Manager®, enabling customers who need to monitor large numbers of sensors to easily integrate that data into existing applications or work with third-party applications

Digi Connect Sensor+ works with Digi Connect Wizard. This smartphone application is the first of its kind for this type of battery powered gateway. It gives local installers, technicians or drivers instant feedback of sensor values over Bluetooth.

**DIGI REMOTE MANAGER®** 

**INDUSTRIAL WATER** MONITOR SOLUTION

APPLICATION EXAMPLE

#### **BENEFITS**

- Weatherproof enclosure with wide temperature range makes it ideal for use in all environments
- Configurable read and report intervals with threshold and delta alarms
- Multiple configurable I/O make it possible to connect to multiple sensor types
- Wired HART and Modbus protocol support
- for sensor power supplies

### External, configurable power outputs eliminate the need DIGI CONNECT® SENSOR+ Global cellular coverage DIGI **RELATED PRODUCTS** Digi Remote

SPECIFICATIONS	Digi Connect® Sensor+
WWAN	
2G BANDS	GSM 850, GSM 900, DCS 1800, PCS 1900
3G BANDS	FDD B1, B2, B4, B5, B8
LTE CATEGORY 1	Verizon: Bands 2, 4, 13 AT&T, T-Mobile: Bands 2, 4, 5 with 3G/2G fallback
ANTENNA CONNECTOR	External SMA
SIM SLOTS	1, Standard size
MANAGEMENT	
CONFIGURATION AND MANAGEMENT	Digi Remote Manager/Local USB to Serial CLI
POWER (Does not include power draw of external se	ensors)
EXTERNAL POWER INPUT RANGE	8 VDC to 30 VDC
BATTERY AND BATTERY LIFE	7.2 V, 14.5 Ah, Lithium thionyl chloride, non-rechargeable, replaceable; Approximately 2 years (@ 2 reads/transmits per day)
POWER DRAW, SLEEPING	86.4 uW
POWER DRAW, CONTINOUS MONITOR	400 mW
POWER DRAW, PEAK TRANSMIT	14.4 Watts
SENSOR PROTOCOL SUPPORT	
WIRED HART	HART 5,7
MODBUS	MODBUS RTU AND ASCII, Connect to up to 4 devices
ANALOG I/O	
INPUTS	4, Configurable as 4/20 mA or 0-10 VDC Analog inputs
INPUT VOLTAGE RANGE	0-10.5 V (Analog input)
INPUT CURRENT RANGE	4-22 mA (Current loop input)
DIGITAL I/O	
PORTS	1 digital I/O or pulse counter input
INPUT RANGE	0-0.6 VCD logic low; 2.2 V-30 VDC logic high
MAX INPUT VOLTAGE	30 VDC
MAX PULSE COUNT FREQUENCY	2 KHZ
DIGITAL OUTPUT	Open collector output, max sink current 450 mA
OUTPUT POWER	open solicitor suspen, manaminate too mit
PORTS	5
OUTPUT VOLTAGE OPTIONS	3.3, 5, 15, 24 VDC
MAX CURRENT OUTPUT	200 mA
FNVIRONMENTAL	200 HIA
OPERATING TEMPERATURES	-35° C to +70° C
STORAGE TEMPERATURE	-33 C to +10 C -40° C to +85° C
RELATIVE HUMIDITY	90%
BATTERY DISCHARGE	<1%/year if stored at +30 ° C
PHYSICAL	170/ year ii stored at +50 °C
DIMENSIONS (L x W x H)	152.4 mm x 108.4 mm (127 mm including glands) x 74.6 mm
WEIGHTS	
	264 g
LEDS INDICATORS ENCLOSURE MATERIAL	Battery, cellular, sensor and Bluetooth
	Lexan
REGULATORY APPROVALS	
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; Class 1, Division II, groups A,B,C,D; ANSI/ISA 12.12.01:2015,CAN/CSA C22.2 No 213-15, 1st Ed
	ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex nA nC IIC T6 Gc
EMISSIONS	FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B
IMMUNITY	EN55024:2010
WARRANTY	
PRODUCT WARRANTY	3 years, excluding battery
	120 20 00 0000



PART NUMBERS	DESCRIPTION
CSENSE-A210	Connect Sensor+, Verizon LTE
CSENSE-A310	Connect Sensor +, AT&T and T-Mobile LTE
CSENSE-A710	Connect Sensor+, Global 3G/2G

Antennas are sold separately

# FOR MORE INFORMATION PLEASE VISIT WWW.DIGI.COM

**DIGI SERVICE AND SUPPORT** / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit www.digi.com/support.

@ 1996-2017 Digi International Inc. All rights reserved. All trademarks are the property of their respective owners.

DIGI INTERNATIONAL WORLDWIDE HQ 877-912-3444 / 952-912-3444 / www.digi.com

**DIGI INTERNATIONAL FRANCE** +33-1-55-61-98-98 / www.digi.fr

DIGI INTERNATIONAL JAPAN +81-3-5428-0261 / www.digi-intl.co.jp DIGI INTERNATIONAL SINGAPORE +65-6213-5380

**DIGI INTERNATIONAL CHINA** +86-21-50492199 / www.digi.com.cn



#### **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Development Software category:

Click to view products by Digi International manufacturer:

Other Similar products are found below:

SRP004001-01 SW163052 SYSWINEV21 WS01NCTF1E W128E13 SW89CN0-ZCC IP-UART-16550 MPROG-PRO535E AFLCF-08-LX-CE060-R21 WS02-CFSC1-EV3-UP SYSMAC-STUDIO-EIPCPLR 1120270005 SW006021-2H ATATMELSTUDIO 2400573 2702579 2988609 SW006022-DGL 2400303 88970111 DG-ACC-NET-CD 55195101-101 55195101-102 SW1A-W1C MDK-ARM SW006021-2NH B10443 SW006021-1H SW006021-2 SW006022-2 SW006023-2 SW007023 MIKROE-730 MIKROE-2401 MIKROE-499 MIKROE-722 MIKROE-724 MIKROE-726 MIKROE-728 MIKROE-732 MIKROE-734 MIKROE-736 MIKROE-738 MIKROE-744 MIKROE-928 MIKROE-936 1120270002 1120270003 1120275015 NT-ZJCAT1-EV4