



ConneXt Loneworker Solution

Hardware Component Specifications

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CONNEX1

ConneX1 Wireless Single Gas Detector



Sensor	Range
Oxygen	0 to 25% by volume
Hydrogen Sulfide	0 to 200 ppm
Carbon Monoxide	0 to 500 ppm
Sulfur Dioxide	0 to 50 ppm
Battery Run Time	14 hours
Battery Recharge Time	5 hours

Category	Specifications
Size	4.5 x 2.95 x 1.44 in. / 114 x 7.5 x 3.65 cm
Weight	0.33 lb / 150 g
Alarms	Visual, Vibrating, Audible (95 dB), Low, High, STEL, TWA
Battery Life	2 year battery life (typical)
Battery Run Time	14 hours
Battery Recharge Time	5 hours
Ratings EMI/RFI EU	EU: Complies with EMC Directive 2004/108/EC & R&TTE Directive 1999/5/EC NA: FCC & Industry Canada
Certifications and Approvals	cCSAus: Class I, Div. 1, Gr. A, B, C, D T4 ATEX: II 1 G T4 NA: AEx ia IIC T4 IECEX: Ex ia IIC T4 Ga CE: European Conformity North America: FCC Title 47 Part 15 Class B Subpart C Intentional Radiator, Industry Canada RSS-210
Warranty	Full two year warranty on detector and sensors
Connector	IR
Antenna	Single
Operating Temperature	-20°C to +50°C / -4°F to + 122°F (normal operation)
Storage Temperature	-40°F to + 140°F/-40°C to +60°C
Humidity (non-condensing)	20 to 90% relative humidity continuous; 0 to 95% relative humidity intermittent
Data Rates	802.11b: Up to 11 Mbps 802.11g: Up to 54 Mbps
RF Output Power	802.11b: +18 dBm 802.11g: +18 dBm
RF Receive Sensitivity	802.11b: -85 dBm @ 1Mbps 802.11g: -85 dBm @ 1Mbps
Frequency Band	2.400 to 2.4835 GHz (US, Canada, EMEA)
Channels	USA/Canada: 14 channels
Security Protocols	WPA2 PSK

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INTELLIDOX

IntelliDoX Automated Docking Station

ConneXt Loneworker Solution component



Category	Specifications
Size	14.2 x 5.4 x 4.3 in / 36.17 x 13.75 x 10.94 cm (l x w x h)
Weight	4.2 lb / 1.91 kg
Power Supply	12 V, 8.33A ITE power supply
Configuration Recognition	Automatic instrument and sensor
Communications Method	Two-way infrared between docking module and detector
Real-Time Clock	Provides date and time stamp
Alarm/Calibration Parameters	User-defined
Calibration Gas Cylinder Inputs	4 gas inlets; 1 ambient air (purge) inlet
Calibration gas connections	Built-in; 1/8 inch (3.2 mm) sub-miniature connect (SMC) coupling
Pump Flow Rate	400 ml/min
Solenoid	Built-in
Automatic Tests	Functional bump test; calibration (due or after failed bump test); detector datalog download; audible alarm; visual alarm; vibrating alarm; detector date/time synchronization; detector setting update (user option); detector firmware update (user option)
Sensors	Audio and optical
LCD	Colour indicative backlight: grey - idle; blue - prompt user for action; yellow - activity in progress; green - activity complete; red - warning
Ratings EMI/RFI	NA: FCC Part 15 / ICES -003 EU: EN 61326-1
Enclosure	Impact resistant PC/ABS (polycarbonate)
Base System Ingress Protection	20
Certifications and Approvals	<ul style="list-style-type: none"> • cCSAus: Ordinary location approved • IEC/EN 61010-1 • C22.2 No. 61010-1-12 • UL 61010-1 • CE: European Conformity
Warranty	2 years
Operating Temperature	+50°F to +95°F / +10°C to +35°C
Storage Temperature	+14°F to +140°F / -10°C to +60°C
Altitude Maximum	6561.7 ft/2000 m
Humidity (non-condensing)	0 to 50% relative
Data Storage	2 GB of on-board memory; wrapping memory replaces oldest with newest
External Data Interface	Ethernet
Ports	1 inactive USB port; 1 ethernet port, for connection to a computer network

Category	Specification
Operating temperature	+10°C to +35°C / +50°F to +95°F
Storage temperature	-10°C to +60°C / +14°F to +140°F
Altitude	Maximum 2000 m / 6561.7 ft
Humidity (noncondensing)	0 to 50% relative humidity
Data Storage	2 GB of on-board memory; wrapping memory replaces oldest with newest
External Data Interface	Ethernet
Ports	1 inactive USB port; 1 ethernet port, for connection to a computer network

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SG-7100 Router and IDP-680 Satellite Terminal

Communications gateway for cellular and satellite.
Reliable satellite connectivity.



SG-7100 Router



IDP-680 Satellite Terminal

Category	Specifications
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SIZE	
Router Size:	4.1 x 4.5 x 1.7 in / 10.5 x 11.5 x 4.5 cm
Satellite Size:	5.0 x 5.0 x 1.9 in / 12.6 x 12.6 x 4.9 cm
PROCESSOR AND OPERATING SYSTEM	
Processor:	ARM9, 450 MHz
Memory:	64 MB
Flash:	128 MB
Operating System:	Linux Open WRT
Application Interfaces:	TCP/IP, UDP/IP, DHCP, HTTP, IP Router PPP, HTTP Web server, Telnet/SSH server, NAT, NMEA, GPS, IP forwarding
Security:	VPN (SSL v2, TLS v1), SSH server, SCP, SFTP
CELLULAR	
HSPA Penta-Band:	800/850/1800/1900/2100 MHz diversity capability. Fallback to HSDPA/UMTS/EDGE/ GPRS
EVDO Rev A Dual-Band:	800/1900 MHz diversity capability. Fallback to CDMA 1x Rev 0 and CDMA 1xRTT
SIM:	Single slot. Dual slot with telematics expansion card
SATELLITE	
Service:	IsatData Pro (IDP), Two-way, Global
Frequency:	Rx: 1525.0 to 1559.0 MHz; Tx: 1626.5 to 1660.5 MHz
Elevation Angle:	Up to -5°F to +194°F / -15° to +90° C
CERTIFICATION	
Regulatory:	Router: Fully certified FCC, CE, IC, PTCRB, Satellite: CE (R&TTE, RoHS 2), FCC, IC, Anatel compliant, MSS Russia, SRCC (IDP-690 only), RCM Mark
Others:	Satellite: Inmarsat Type Approval, IP67
EXTERNAL INTERFACES	
Router (Standard):	1 x 100 Mbps Ethernet
Router (Optional) Telematics Expansion Card:	1 x USB OTG, 1 x USB host 2 x RS-232 or 1 x RS-232 and 1x RS-485 1 x CAN bus 1 x 1-wire interface 3 x Digital/Analog In 2 x Digital Out 2 x Dedicated Analog (0 to 10 V, 12 bit resolution) Accelerometer: 3-axis, 12 bit

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(continued)

Category	Specifications
EXTERNAL INTERFACES (Cont.)	
Router (Optional) Serial Card:	1 x RS-232
Router (Optional) Industrial Serial Card:	1 x RS-485, 1 x RS-232
Router Status LEDs:	Status, Communication, GPS
Satellite, Inputs/Outputs:	4 x Analog or Digital In/Out
Satellite, Serial:	1 x RS-232; 1 x RS-485
Satellite, Accessories:	1-Wire adaptor via RS-232 port
ENVIRONMENTAL	
Router, Operating Temperature:	-22°F to +158°F / -30°C to +70°C
Satellite, Operating Temperature:	-40°F to 185°F / -40°C to +85°C
Satellite, Dust and Water Ingress:	IP67
GPS	
	Standalone GPS, Assisted GPS, gpsOneXTRA Assistance™ Wideband GPS Processing (20 MHz) for improved measurement accuracy
Option:	Dual GPS and GLONASS with optional satellite
ELECTRICAL	
Input Voltage:	9 to 32 Volts DC; optional SAE J1455 load dump protection
Power Consumption (Typical @12Volts DC):	121 mA (connected to GPRS network) 772 mA (peak transmitting, GPRS)
DEVELOPMENT SUPPORT	
M2M Messaging:	Lua Services Framework with core services and API. SDK with GUI-based development tools.
Web Services:	Web server installed.
Optional, Configurable Device-Level Applications:	Analytics Agent - Notifications and reports for driver behavior and vehicle/asset performance. AVL Agent - Facilitates integration of IDP terminals into fleet management solutions. Garmin Dispatch Agent - Tracking, navigation, driver communication and dispatch using Garmin devices. J1939 Agent - Vehicle CAN bus connectivity for monitoring driver behaviour and vehicle/asset performance. ARC Agent - Alert on critical events, report status proactively and control simple devices remotely.

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Honeywell Analytics Gas Detection Offerings

Honeywell Analytics gas detectors protect people, assets and environment from toxic and combustible gas hazards, helping to create safer, more comfortable, secure and productive environments. Our strength derives from Honeywell's leadership in sensor technology; in fact Honeywell operates four sensor manufacturing plants, supplying an entire industry with its core detective element.



Commercial

Gas detection from standalone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance.

- » Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

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- » Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets

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Find out more:

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