DATA SHEET

AGILLOX

AGX-101Ex-UHF
Long range Reader / Writer
ATEX Zone 1

Product Description	AGX-101Ex-UHF Fix mount Reader / Writer

The AGX 101Ex UHF brings the latest RFID reader technology into the hazardous area, allowing reliable tracking solutions to be implemented in the harshest of environments. When used with assosoiated passive RFID tags, users can safely track and maintain any asset throughout the hazardous area. With up to 4 antenna outputs theAGX 101Ex UHF provides a versatile solution for multiple read locations with just one fixed reader. The intrinsically safe RF outputs allow the use of specialist RFID antennas for long read range and excellent read reliability.

The reader is optimized for portal applications featuring up to 4 antennas, network interfaces, GEN2 DRM management and high speed Gen2 read rates. The AGX 101Ex uses an INTEL® ATOM™ processor and combines the processing power of INTEL X86 architecture with the most advanced RFID performances, and complies with a wide range of international regulatory approvals for global usability. AGILLOX also offers various portable handheld RFID reader with touch screen technology to conveniently capture tags information as combination with fix installed readers for more flexible operations.

Electrical Characteristics

Operating Frequency	902-928 MHz (FCC part 15)
	865.600-867.600 MHz (ETSI EN 302 208)
	952-954 MHz (ARIB STD-T89)
Transponder Types:	all ISO 18000-6C, EPC Class 1 Gen 2 UHF

Thermal & Environmental Characteristics

Operating Temperature	-20ºC up to +40ºC
Supply voltage:	24 VDC (9-36VDC)
Power output:	Up to 32 dBm (~1.6 W) conducted
Maximum Power Consumption:	30W
Interface	RS232 Serial Communication (DB9)
	USB 2.0 High Speed Host Port
	Ethernet 10/100BASE-T (RJ45)
	GSM / GPRS (SMA) - Requires certified antenna

Physical Characteristics

Enclosure Material:	Marine grade copper free aluminium light alloy, epoxy powder coated
Dimensions:	415 x 340 x 250 mm (w x h x d)
Weight:	Approx 23kg
IP Class	IP66
RF Output Connections:	Up to four intrinsically safe N-Type RF outputs
Digital I/O:	14 GPIO pins TTL level
Environmental Conditions:	Relative Humidity 5% - 95% (non-condensing). Vibration EN 60068-2 / 10 - 150 Hz: 0.075 mm / 1g Shock EN 60068-2-27 Accelaration: 30G
Ex Marking:	ATEX II 2(1) GD Ex db [ia IIC Ga] IIB+H2 T6 Ex tb IIIC T85°C IP66
Certificate:	ATEX—BKI08ATEX0019 IECEx—IECEx BKI 09.0005
Optional Accessories:	**External ATEX Zone 1 certified Short-, Mid-, and Long range RFID Antennas. Connecting kit Mounting kit.**

Article no:

Article no:		**AGX-101Ex-ETH**

Typical Applications

All LF RFID applications in ATEX Zones 2 / 22