



**AGX-100Ex-UHF
Long range Reader /
Writer
ATEX Zone 1**



Product Description		AGX-100Ex-UHF Fix mount Reader / Writer
<p>The AGX 100Ex UHF brings RFID reader technology into the hazardous area, allowing reliable tracking solutions to be implemented in the harshest of environments. When used with extensive range of passive RFID tags, users can safely track and maintain any asset throughout the hazardous area. With up to 4 antenna outputs the AGX 100Ex provides a versatile solution for multiple read locations with just one fixed reader. The intrinsically safe RF outputs utilize RF Galvanic isolator technology allowing the use of specialist RFID antennas for long read range and excellent read reliability.</p> <p>The reader is a UHF multi protocol module for long range applications. With programmable output power in 256 steps from 17dBm to 32dBm, the reader can detect tags at distances of up to eight meters. The AGX 100Ex is fully compliant to the European regulations ETSI EN302208 and EN 300220, and supports Philips UCODE EPC 1.19, ISO 18000-6B and EPC Class1 Gen2. AGILLOX also offer a portable handheld RFID UHF reader with touch screen technology to conveniently capture tags information.</p>		
Electrical Characteristics		
Operating Frequency	865.6-867.6 MHz (ETSI EN 302 208)	
Transponder Types:	all ISO 18000-6C, EPC Class 1 Gen 2 UHF	
Thermal & Environmental Characteristics		
Operating Temperature	-20°C up to +60°C	
Supply voltage:	Universal 90-264VAC or 15Vdc	
Power output:	Up to 32 dBm (~1.6 W) conducted	
Maximum Power Consumption:	15W (max), 0.25W (idle mode)	
Interface	RS232 Serial Communication (DB9)	
Physical Characteristics		
Enclosure Material:	Marine grade copper free aluminium light alloy, epoxy powder coated	
Dimensions:	415 x 340 x 168 mm (w x h x d)	
Weight:	Approx 21kg	
IP Class	IP66	
RF Output Connections:	Up to four intrinsically safe N-Type RF outputs	
Environmental Conditions:	Relative Humidity 5% - 95% (non-condensing).	
Digital I/O:	5x GPIO pins 3.3V out, 5V tolerant	
Ex Marking:	II 2(1) GD Ex db [ia IIC Ga] IIB+H2 T6 Ex tb IIIC T85°C IP66 -20°C to +60°C	
Certificate:	ATEX—BK108ATEX0019 IECEx—IECEX BK1 09.0005	
Optional Accessories:	External ATEX Zone 1 certified Short-, Mid-, and Long range RFID Antennas. Connecting kit Mounting kit.	
Article no:		
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Typical Applications		
All LF RFID applications in ATEX Zones 1		

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