FCC Statutory Requirements
Unlicensed operation limits the radio power. High gain aerials may only be used to compensate for cable losses.

RS485 Connections

ANTENNA INSTALLATION

Antenna Installation

Wavelengths
900 MHz = 33 cm

SURGE ARRESTOR (RECOMMENDED)

WEATHERPROOF CONNECTORS WITH "3M 23" TAPE

COAXIAL CABLE

COLINEAR ANTENNA

MAST

INSTALL ANTENNA ABOVE LOCAL OBSTRUCTIONS FOR MAXIMUM RADIO DISTANCE

IF GROUND CONDITIONS ARE POOR, INSTALL MORE THAN ONE STAKE

MAXIMUM WAVELENGTH

900 MHz = 33 cm

NOTES
• ALL connections must be SELV (Safety Extra Low Voltage <50V AC & <120V DC)
• Ethernet Port wiring is that of a hub or switch.
• "-" Supply terminal and 'M4 GND screw on rear of module' must be connected to EARTH/GROUND as close as practical to the unit.
• Module Power Supply is not isolated. "-" Terminal is connected to Ground internally
• DIO channel can be wired as either input or output.
• Care must be taken with antenna selection and proximity to the radio.
• For short distance paths, RX signal level should be checked and if it exceeds -40dBm a 20dB attenuator must be fitted in line with coax cable.
• Demo Antennas must not be used for final installation.
• The non-metallic cover of the Wireless Ethernet modem is considered to constitute an electrostatic discharge hazard. Clean only with a damp cloth
• The Wireless Ethernet modem enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction and must be taken into account during installation.
• If the Wireless Ethernet modem is installed as Category 3 equipment, then it shall be installed in an Enclosure which maintains an ingress protection rating of IP54 and meets the enclosure requirements of EN 50014 or EN 60079-0.
• Explosion hazard – Substitution of components may impair suitability for Class I, Division 2.

DO NOT DISCONNECT CIRCUITS WHILE LIVE, UNLESS AREA IS A KNOWN TO BE NON-HAZARDOUS

Digital Output Wiring

* Connect to Ground as close as possible to the module.

DC Load, eg Relay

Max 30VDC 0.5A

RS485 Connections

RS485 Resistor Termination Switch

Host

RS232 Connections

PC’s

DIO

COM

MODULE

Digital Output Wiring

DC Load

Max 30VDC 0.5A