Installing the Power Portal



The Power Portal requires a 100V to 240V AC mains supply at 50/60Hz, 1.2 Amp, and provides 12 Volt power and internet connection to iVIBE, iDB, iGAS, iDUST and other instruments

MAINS VOLTAGES ARE INVOLVED SO ALWAYS USE A QUALIFIED ELECTRICIAN TO INSTALL THE POWER PORTAL. DO NOT DISASSEMBLE WHEN MAINS POWER IS CONNECTED.

ABOUT 100W OF MAINS POWER IS REQUIRED AND THE MAINS SUPPLY SHOULD BE FUSED ACCORDINGLY. USE AN EARTH LEAKAGE TRIP.

AN ELEXON APPROVAL CODE IS AVAILABLE FOR TURNKEY'S ENVIRONMENTAL MONITORS

Pay attention to locating the Power Portal antenna to achieve reliable communications over the cellular network. We can provide a high gain antenna if required and our Installation Engineer can carry out a cellular signal strength survey.

1. Securely fix the Power Portal to a wall or other suitable vertical structure with its connectors at the bottom. A simple security key for its door is provided, please contact our factory if you require a high-security key.
2. Two stub antennae are provided with the Power Portal, one for the WiFi communications and one for 3G cellular communications. Screw these into the SMA connectors on the case. The bottom front connector is for WiFi.

3. If you are in an area of strong 3G signal strength (most city areas) the supplied stub antenna will suffice.
4. If you are in a rural area or one with weak signal you may need to connect a hi-gain pole mounted antenna instead. Please call or email our factory for more information, techsupport@turnkey-instruments.com .
5. Connect the mains power cable to the mains connector and switch on the power. Various LEDs should illuminate confirming power is being supplied to the equipment



6. Finally connect the iGAS or iDUST to the Portal Power with the 5-metre long data cable. This joins the 6-pin waterproof connectors on the instrument and the Power Portal.
7. Please contact Turnkey to purchase a longer cable to increase this distance, the maximum separation between the Power Portal and the instrument can be several kilometers.
8. Please refer to ***Connecting iGAS or iDUST to AirQWeb*** at www.iGASES.uk or www.iDUST.uk for instructions on setting up the Internet connection.

Please visit www.iGASES.uk or www.iDUST.uk to access other iDUST and iGAS documentation

If you need assistance, please contact:

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