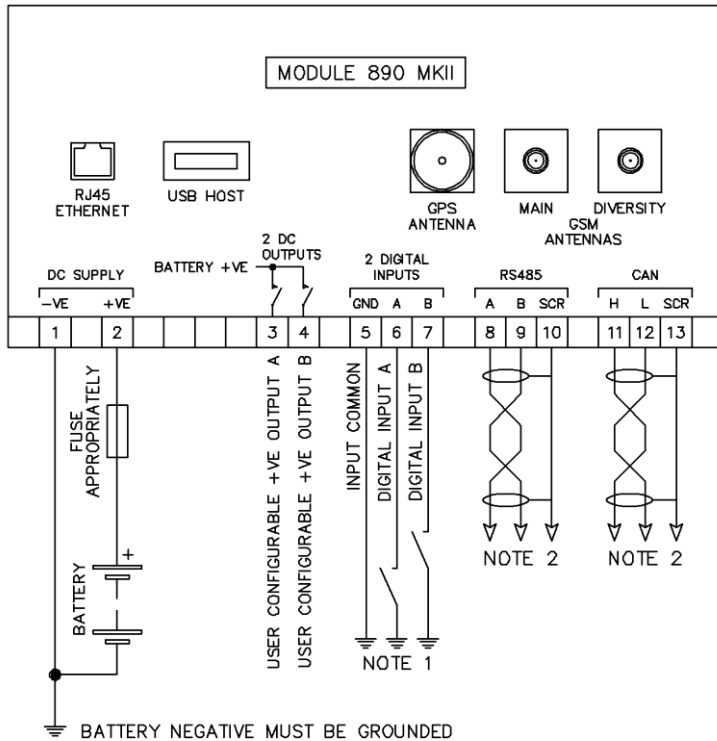


TYPICAL WIRING DIAGRAM



NOTE 1. THESE GROUND CONNECTIONS MUST BE CONNECTED TO THE SAME GROUND AS BATTERY NEGATIVE.

NOTE 2. IF THE MODULE IS FIRST OR LAST UNIT ON THE LINK, IT MUST BE FITTED WITH A 120 OHM TERMINATION RESISTOR ACROSS THE A AND B OR H AND L TERMINALS.

DISCLAIMER:

IMPORTANT INFORMATION: The DSE890 MKII IoT Gateway Device does not meet the cybersecurity requirements defined by the Radio Equipment Directive (RED), Article 3.3 (d) and the EN18031-1 standard. As a result, the 4G functionality in this product is not permitted for use within the EU/EEA after August 1, 2025. If 4G connectivity is required within these territories, the current DSE alternative is the DSE891 MKII (0891-04) – which should be used alongside a 3rd party 4G modem. Outside of the EU/EEA the 4G connectivity within the DSE890 MKII can continue to be used as normal. If no 4G connectivity is required within the EU/EEA, the DSE890 MKII can continue to be used via Ethernet connectivity only.

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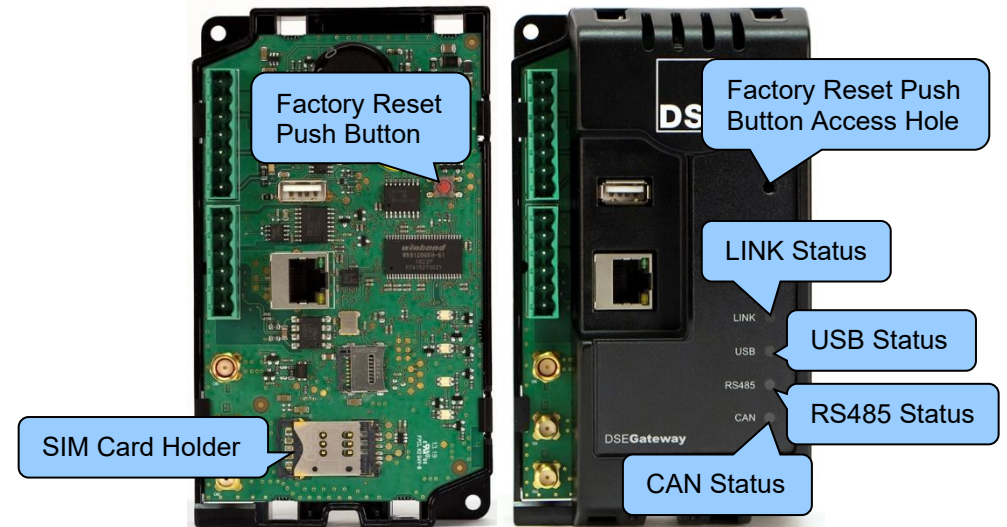
DSE DEEP SEA ELECTRONICS DSE890 MKII 4G Gateway Installation Instructions

053-247
ISSUE: 4

The DSE890 MKII 4G Gateway communicates with the connected DSE module(s) monitoring their instrumentation and operating state. As the data changes, it is logged into the DSEGateway[®]'s memory. At configured intervals this logged data is transmitted to the DSEWebNet[®] server using an internet connection provided by the ethernet or GSM (2G, 3G or 4G mobile internet) connections (the SIM card is not supplied by DSE).

Additionally for mobile applications, the DSE890 MKII 4G Gateway contains a GPS location receiver to determine the positioning of the device on the world map on the DSEWebNet[®].

LED STATUS



LED	Colour	Description
LINK	Red	No Connection to DSEWebNet [®] Server
	Green	Connection the DSEWebNet [®] Server is established
USB	Red	Data Transfer Error
	Green	Data Transfer Ok
RS485	Red	Data Transfer Error
	Green	Data Transfer Ok
CAN	Red	Data Transfer Error
	Green	Data Transfer Ok

ACCESSING SETUP PAGES

NOTE: Consult the company IT department before making changes to PC network settings.

NOTE: Username and Password are both CASE SENSITIVE.

1. Connect the DSEGateway® Ethernet port directly to the PC Ethernet port using either a 'straight through' or 'crossover' network cable.
2. Configure your PC to be on a fixed IP address (192.168.1.99) as per below ...

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address: 192.168.1.99

Subnet mask: 255.255.255.0

Default gateway: . . .

IP Address: 192.168.1.99
Subnet Mask: 255.255.255.0

Factory Settings
IP Address: 192.168.1.100
Subnet Mask: 255.255.255.0

3. Using Google Chrome or Internet Explorer, navigate to the address of the DSEGateway® (192.168.1.100) and enter the username and password of the DSEGateway®...

192.168.1.100

Google

Factory Settings
Name: Admin
Password: Password1234

Sign in

http://192.168.1.100

Your connection to this site is not private

Username: Admin

Password: Password1234

Sign in Cancel

4. It is now possible to view and configure the DSEGateway®. Make a note of the DSEGateway® ID number. This is required when adding the DSEGateway® to DSEWebNet®.

DSE
DSE 0890-04 Gateway

192.168.1.100 | 24/07/2019 09:07:57 | V1

Status

Configuration

Modules Connection

Info Network GSM Location IO MODBUS Stats

Model 0890-04

Gateway ID 0890-04

Software Version 1.0.4

Bootloader Version 0.0.23

GSM Version 2.0 1.0.2

Server URL www.dsewebnet.com

Site Name Site Name

Make a note of the DSEGateway® ID.

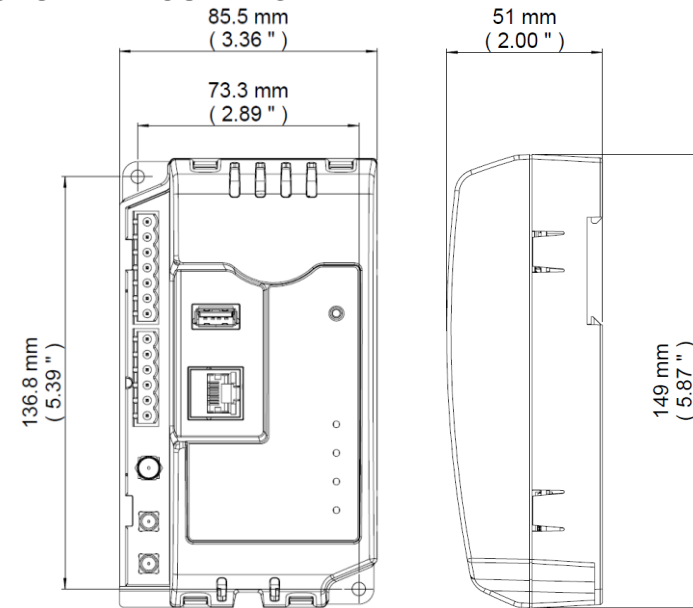
FACTORY DEFAULT SETTINGS

IP Address	Username	Password
192.168.1.100	Admin	Password1234

For further details on how to setup the DSE890MKII 4G Gateway, refer to the following DSE publications available from www.deepseaelectronics.com:

- 056-121 DSEGateway® Quick Set-Up Guide
- 057-304 DSE890 MKII 4G Gateway Operator Manual
- 057-168 DSEWebNet® PC Internet Browser Software Manual

DIMENSIONS AND MOUNTING



Parameter	Specification
Overall Size	85 mm X 149 mm X 51 mm (3.35 " X 5.85 " X 2.01 ")
Mounting Type	DIN rail or chassis mounting, indoor use only.
DIN Rail Width	EN 50022: 35 mm (1.4 ")
Mounting Holes	M4 (0.25 ")
Mounting Hole Centres	73 mm X 137 mm (2.89 " X 5.39 ")
Operating Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
Operating Temperature for UL Certification	-30 °C to 50 °C (-22 °F to 122 °F)
Storage Temperature	-40 °C to 80 °C (-40 °F to 176 °F)
Weight	0.25 kg (0.55 lbs)