

## DSE891 MKII DSEWebNet® Gateway - Ethernet Only

Part Number : 0891-04



### Overview

The DSE891 MKII gateway is used in conjunction with supported DSE controllers and programmable displays to provide remote monitoring and communications data via DSEWebNet® or third party MQTT brokers. The DSE891 MKII communicates with up to five connected DSE controllers, monitoring instrumentation and operating states. Data is logged internally and transmitted from the gateway device to the DSEWebNet® or MQTT broker (Amazon Web Services, Google, IBM etc..).

DSEWebNet® software is accessed using an Internet browser or the dedicated app. Users are able to perform multiple tasks including: monitoring equipment, clearing alarm conditions, starting/stopping equipment and monitoring fuel levels.

The IoT feature of the DSE891 MKII supports MQTT V 3.1.1 (ISO/IEC 20922:2016). This enables connection to a third party server that is running an MQTT broker, whilst simultaneously supporting connection to the DSEWebNet® server.

The Gateway DSE891 MKII connects to the DSE data server by an integral Ethernet connection only. This is most suited for fixed installations where an ADSL / DSL cable broadband service is available (external broadband modem required, not supplied by DSE).

If you are using the DSE891 MKII as a temporary DSE890 MKII (0890-04) replacement in the EU / EEA markets, please note a third party 4G / 5G IoT Gateway will also be required.

### Key Features

- Configured device can be monitored using DSEWebNet® software
- Configured device can be monitored using third-party MQTT brokers
- DIN rail & chassis mount
- Multiple users can access each DSE891 MKII simultaneously
- Ethernet connectivity

### Product Documentation

053-386 – DSE891 MKII Installation Instructions

057-383 – DSE891 MKII Operator Manual



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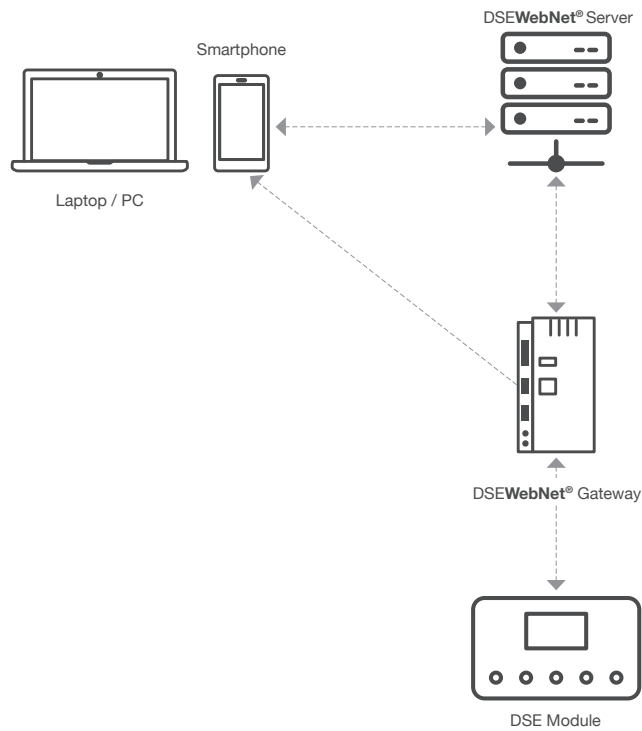
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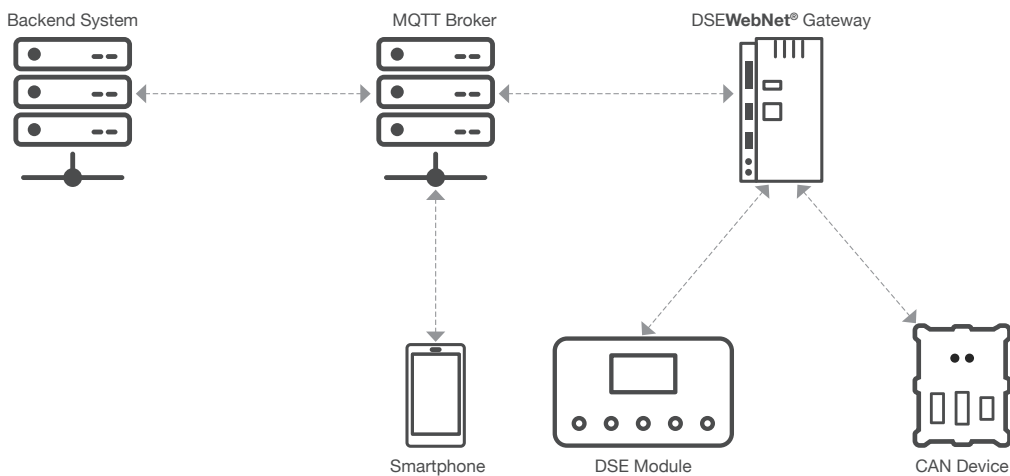
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### DSEWebNet® System Overview



### MQTT System Overview



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## DSE891 MKII DSEWebNet® Gateway - Ethernet Only

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Specifications	
<b>DC Supply</b>	
<b>Continuous Voltage Rating</b>	8 V to 36 V DC continuous
<b>Cranking Dropouts</b>	Able to survive 0 V for 100 ms, providing supply was at least 8 V before dropout and supply recovers to 8 V. This is achieved without the need for internal batteries.
<b>Maximum Operating Current</b>	<b>Ethernet</b> 200 mA at 12 V 110 mA at 24 V
<b>Maximum Standby Current</b>	<b>Ethernet</b> 150 mA at 12 V 90 mA at 24 V
<b>Digital Outputs</b>	
<b>Number</b>	2
<b>Type</b>	Positive Switching DC Outputs
<b>Output Rating</b>	2 A at Supply Voltage
<b>Digital Inputs</b>	
<b>Number</b>	2
<b>Type</b>	Negative Switching Digital Input
<b>Closed Voltage Threshold</b>	Less than 2.1 V
<b>Closed Voltage Threshold</b>	Greater than 6.6 V
<b>Communications</b>	
<b>USB</b>	Single DSE Controller
<b>CAN (Only active for third-party MQTT brokers)</b>	Multiple DSE Controllers
<b>RS485</b>	Multiple DSE Controllers
<b>Ethernet</b>	Multiple DSE Controllers
<b>Temperature</b>	
<b>Operating Temperature</b>	-30 °C to +60 °C / -22 °F to +140 °F
<b>Storage Temperature</b>	-40 °C to +80 °C / -40 °F to +185 °F
<b>Dimensions</b>	
<b>Overall (W x H x D)</b>	85.5 mm x 136.8 mm x 51 mm / 3.36 " x 5.39 " x 2.00 "
<b>Mounting</b>	
<b>DIN Rail</b>	35 mm / 1.4"
<b>Chassis</b>	2 M4 mounting holes

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Related Products		
<b>DSEgenset®</b>		
DSEG8900	7" Colour Parallel Genset Controller	G8900-01
DSEG8680	Bus-Tie Controller	G8680-01
DSEG8660	Mains (Utility) Controller	G8660-01
DSEG8600	Parallel Genset Controller with Integral Heater	G8600-01
DSEG4500	Compact Single Genset Controller	G4500-01
DSEG4501	Compact Single Genset Controller	G4501-01
DSEL401 MKII	Intelligent Lighting Tower Control Module	L401-01
DSEP100	Mains Decoupling Relay	P100-02
DSE8680	Synchronising Generator Bus Tie Control Module	8680-01
DSE8660 MKII	Auto Transfer Switch & Mains (Utility) Control Module	8660-02
DSE8620 MKII	Synchronising Auto Mains (Utility) Failure Load Share Control Module	8620-02
DSE8610 MKII	Synchronising & Load Sharing Auto Start Control Module	8610-02
DSE7420 MKII	Auto Mains (Utility) Failure Control Module	7420-03
DSE7410 MKII	Auto Start Control Module	7410-03
DSE7320 MKII	Auto Mains (Utility) Failure Control Module	7320-03
DSE7310 MKII	Auto Start Control Module	7310-03
DSE6120 MKIII	Auto Mains (Utility) Failure Control Module	6120-05
DSE6110 MKIII	Auto Start Control Module	6110-05
DSE6020 MKII	Auto Mains (Utility) Control Module	6020-03
DSE4620	Auto Mains (Utility) Failure Control Module	4620-03
DSE4610	Auto Start Control Module	4610-03
DSE4520 MKII	Auto Mains (Utility) Failure Control Module	4520-05
<b>DSEControl®</b>		
DSEE800	Engine Only Control Module	E800-01
DSEE400	Engine Only Control Module	E400-01
DSEE100	Engine Only Control Module	E100-01
<b>DSEAts®</b>		
DSE335 MKII	Auto Transfer Switch Control Module	0335-11
DSE334	Auto Transfer Switch Control Module	0334-01
DSE331	Auto Transfer Switch Control Module	0331-01

Please note: the related product list is not exclusive, please email [support@deepseaelectronics.com](mailto:support@deepseaelectronics.com) to check compatibility.

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Environmental Testing Standards	
<b>Electro-Magnetic Compatibility</b>	
BS EN 61000-6-2	EMC Generic Immunity Standard for the Industrial Environment
BS EN 61000-6-4	EMC Generic Emission Standard for the Industrial Environment
<b>Electrical Safety</b>	
BS EN 62368-1	Audio / video, information and communication technology equipment
<b>Temperature</b>	
BS EN 60068-2-1	Ab/Ae Cold Test -30 °C
BS EN 60068-2-2	Bb/Be Dry Heat +70 °C
<b>Vibration</b>	
BS EN 60068-2-6	Ten sweeps in each of three major axes 5 Hz to 8 Hz at ±7.5 mm, 8 Hz to 500 Hz at 2 gn
<b>Humidity</b>	
BS EN 60068-2-30	Db Damp Heat Cyclic 20/55 °C at 95% RH 48 Hours
BS EN 60068-2-78	Cab Damp Heat Static 40 °C at 93% RH 48 Hours
<b>Shock</b>	
BS EN 60068-2-27	Three shocks in each of three major axes 15 gn in 11 ms

Pin Out Description	
Pin	Description
1 to 2	DC Supply
3 to 4	Digital Outputs
5 to 7	Digital Inputs
8 to 10	RS485
11 to 13	CAN

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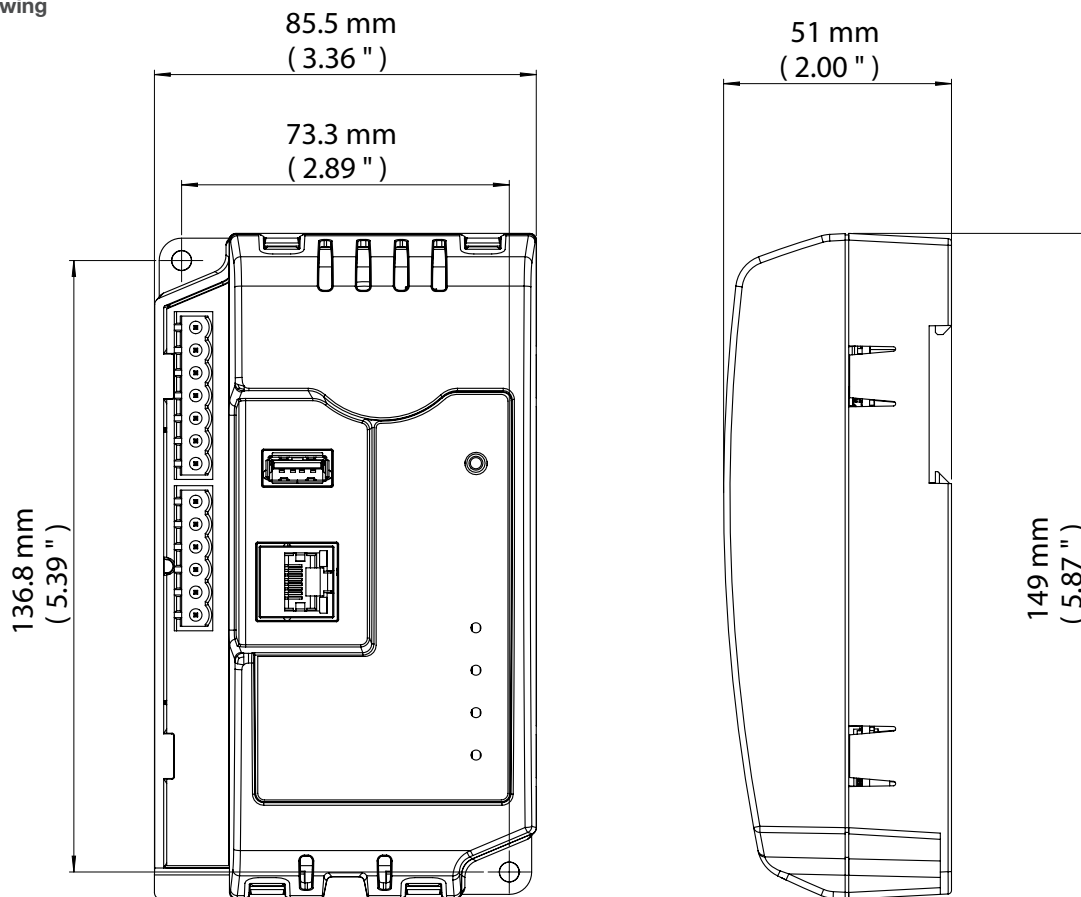
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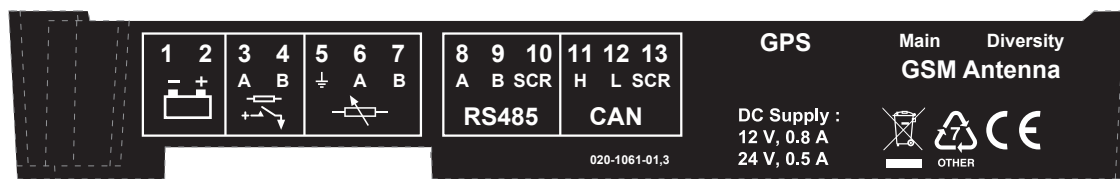
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### Technical Drawing



### Connection Label

**Please Note:** The DSE891 MKII is an Ethernet only gateway device.



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