

MODBUS GATEWAY KIT INSTRUCTIONS

ModuMax mk4
Varblok 2

IMPORTANT NOTE

THESE INSTRUCTIONS MUST BE READ
AND UNDERSTOOD BEFORE INSTALLING,
COMMISSIONING, OPERATING OR
SERVICING EQUIPMENT



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Technical Enquiries

To supplement the detailed technical brochures, technical advice on the application and use of products in the Hamworthy Heating range is available from our technical team and our accredited agents.

Site Assembly

Hamworthy offer a service of site assembly for many of our products where plant room access is restricted. Using our trained staff we offer a higher quality of build and assurance of a boiler built and tested by the manufacturer.

Commissioning

Commissioning of equipment by our own engineers, accredited agents or specialist sub-contractors will make sure the equipment is operating safely and efficiently.

Service Contracts

Regular routine servicing of equipment by Hamworthy service engineers inspects the safety and integrity of the plant, reducing the risk of failure and improving performance and efficiency. Service contracts enable you to plan and budget more efficiently.

Breakdown service, repair, replacement

Hamworthy provide a rapid response breakdown, repair or replacement service through head office at Poole and accredited agents throughout the UK.

Spare Parts

We offer a comprehensive range of spare parts, providing replacement parts for both current and discontinued products. Delivery options are available to suit you. Please refer to our website for more details.

ModuMax mk4 & Varblok 2

- **Condensing, Fully Modulating, Pre-Mix, Gas Fired, Modular Boilers for Heating and Domestic Hot Water Installations**
- **Natural Gas I2H**
- **LPG Propane I3P**
- **The ModuMax boiler is intended for use as a commercial appliance.**
- **This boiler is for use on Group H natural gas (2nd family) I2H and LPG propane (3rd family) I3P. Please make sure the relevant information within this document for each specific gas requirement is adhered to prior to firing the boiler.**
- **Country of destination : United Kingdom & Republic of Ireland.**
- **This boiler complies with all relevant European Directives.**

LITERATURE SYMBOLS

 **WARNING: Risk of injury or death.**

 **CAUTION: Risk of damage to objects.**

 **IMPORTANT: Notes to make you aware.**

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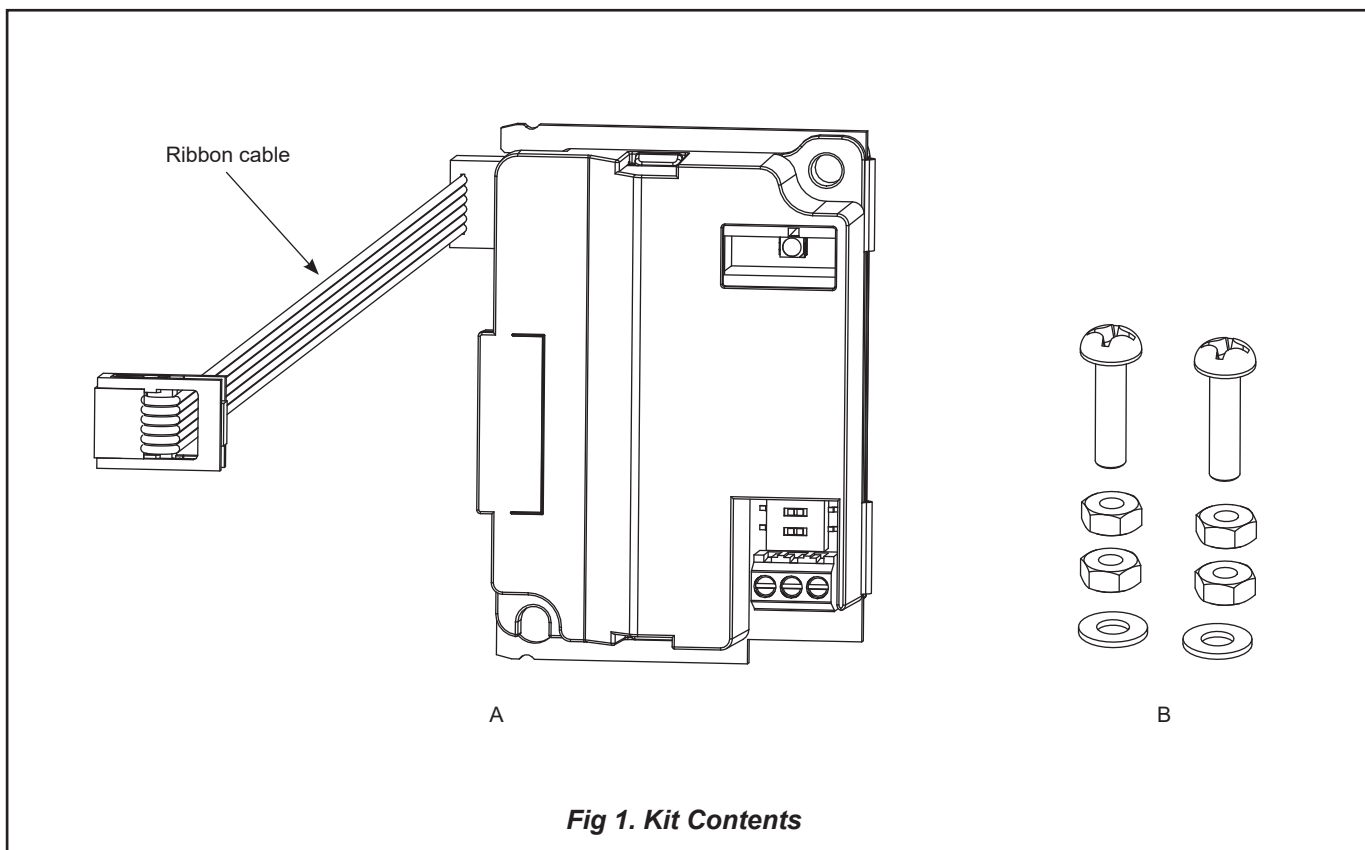
1.0 INTRODUCTION

The following document provides instructions on how to install a ModBus Gateway Kit, which allows individual appliances or a cascade to be connected to a ModBus enabled building management system (BMS) or ModBus Controller. The ModBus input allows control and/or monitoring of the entire system.

2.0 KIT CONTENTS

The kit consists of the following parts:

- OCI351 Module (Including ribbon cable) - (A)
- Module fixings (Screws 2 off, nuts 4 off and washers 2 off) – (B)



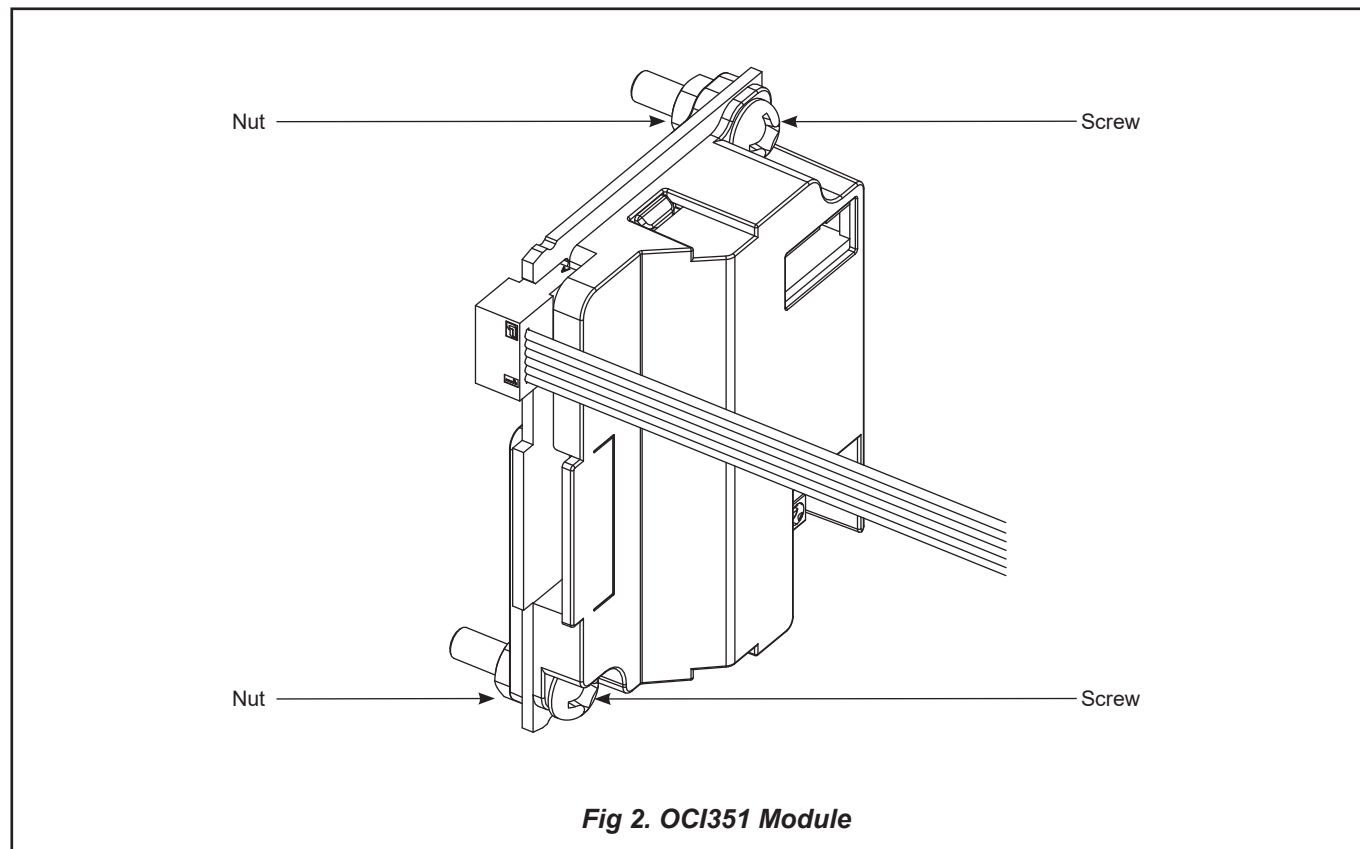
The electrical wiring needs to be provided by the installer. The electrical wiring should be 3 core PVC insulated cable NOT LESS than 0.5mm², with a maximum length of 20m.

NOTE. Wiring external to the appliance **MUST** be in accordance with the current I.E.T. (BS7671) wiring regulations and any local regulations which apply. For Ireland reference should be made to the current ETCI rules for electrical installations.

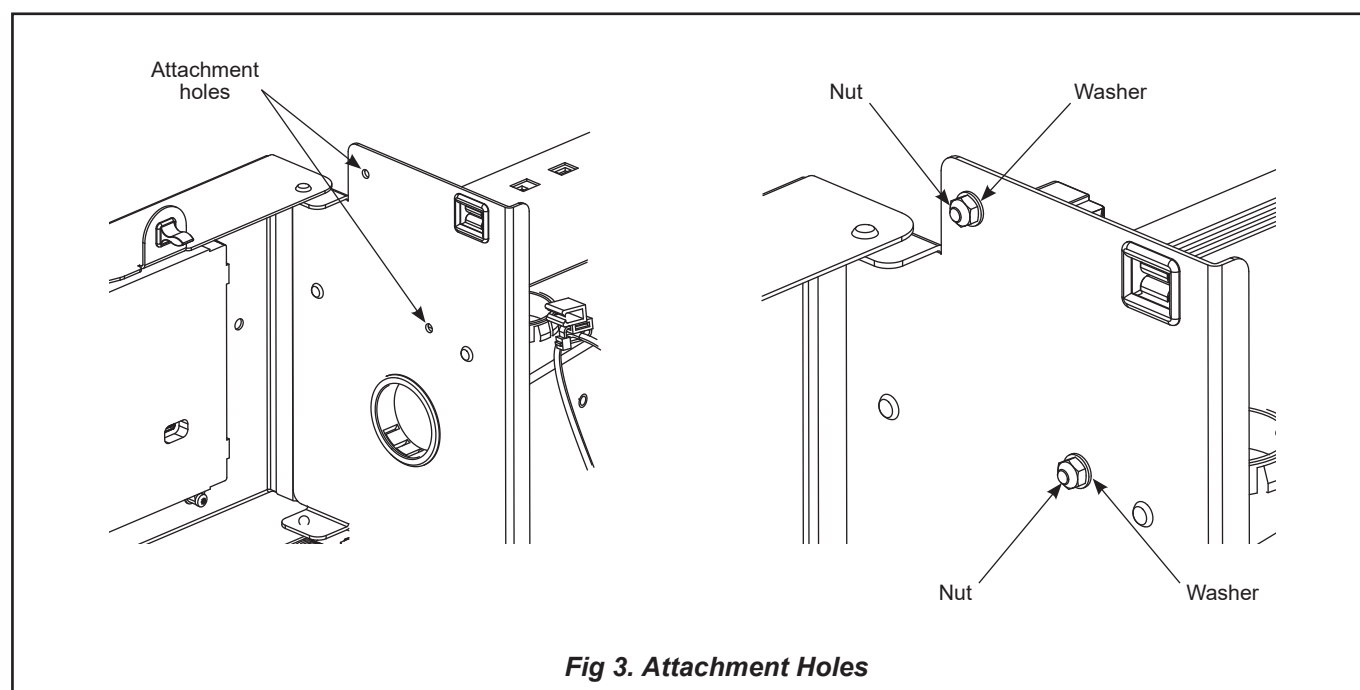
3.0 FITTING THE OCI351

Switch off and isolate the electricity supply to the boiler and any external controls. Refer to the boiler installation instructions for how to access the boiler electrical connections.

Two off the nuts supplied are to be utilised as stand-offs between the OCI351 module and the control board. These are to be assembled with the 2 off screws as shown in Fig 2 prior to fitting the OCI351 module to the control panel.

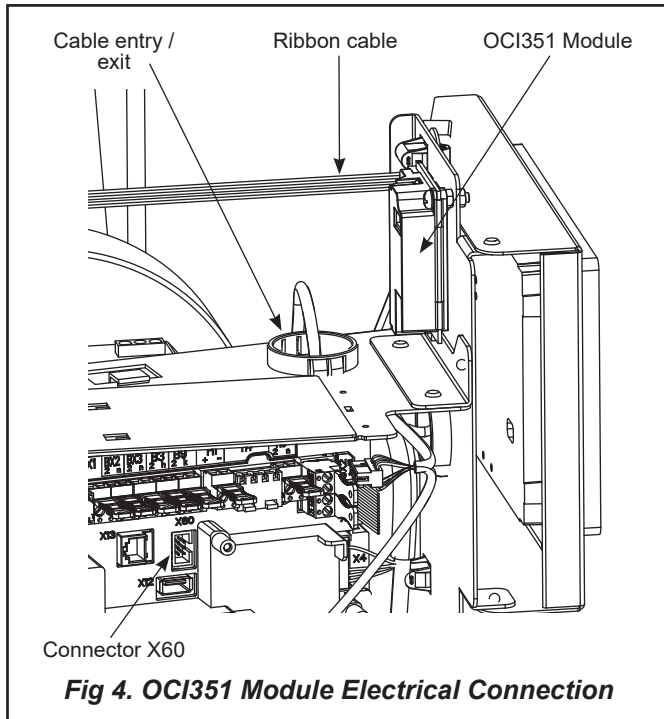


Fit the OCI351 module utilising the attachment holes in the control panel along with the remaining two off nuts and 2 off washers as shown in Fig 3. The HMI screen will need to be hinged out of the way for access to one of the attachment holes.



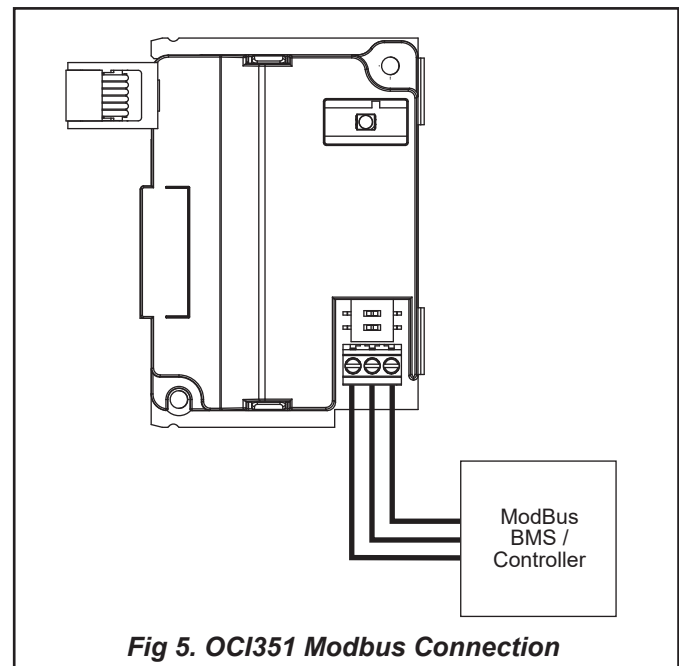
4.0 CONNECTING THE RIBBON CABLE HARNESS

Fit the Ribbon cable of the OCI351 Module to Connector X60 of the LMS as shown in Fig 4. Ensure that the ribbon cable is routed through the cable entry/exit.



5.0 CONNECTION TO MODBUS

The connection between the boilers and the ModBus BMS/controller is made on the connector of the OCI351 Module as shown in Fig 5.



Refer to the boiler installation instructions for how to reattach the front cover and switch on the electricity supply to the boiler.

Refer to the full controls guide for instructions on how to commission the ModBus functionality on the boiler.

NOTES

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Hamworthy reserves the right to make changes and improvements which may necessitate alteration to the specification without prior notice.