Installation instructions



for contractors

LON communication module

Safety instructions



Please follow these safety instructions closely to prevent accidents and material losses.

Safety instructions explained

!	Please note This symbol warns against the risk of material losses and envi- ronmental pollution.	Note Details identified by the word "Note" contain additional information.
Installation, commissioning, inspection, maintenance and repairs must only be carried out by an authorised, competent person (heating engineer/installation contractor).		Check for gas tightness after installa- tion.
		Wear suitable personal protective equipment when carrying out any work.
Before working on the appliance/heat- ing system, isolate it from the power supply (e.g. by removing a separate mains fuse or by means of a mains iso- lator) and safeguard against unauthor- ised reconnection.		Repairing components that fulfil a safety function can compromise the safe operation of the system. For replacements, use only original spare parts supplied or approved by Viessmann. Install the components with new gas-
When using gas as fuel, also close the main gas shut-off valve and safeguard		kets.

against unintentional reopening.

Application

LON communication module, part number

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7172173	7172174	7179113		
 Boiler with the following boiler and heating circuit control units: Vitotronic 100, type CC1E, CC1I, GC1, GC1B, GC4, GC4B Vitotronic 200, type CO1E, CO1I, FO1, GW1, GW1B Vitotronic 200, type KO1B, KO2B Vitotronic 300, type FW1, GW2, GW2B, GW4, GW4B Boiler and heating circuit control unit with cascade function: Vitotronic 300, type CM1E, CM11 Heating circuit control units: Vitotronic 200-H Heat pumps (as individual appliances or lag appliances in a heat pump cascade) with the following weather-compensated control units: WPR 300 Vitotronic 200, type WO1A, WO1B, WO1C 	 Cascade control unit in multi boiler systems: Vitotronic 300-K, type MW1, MW1B, MW2, MW2B Vitotronic 333, type MW2 Lead heat pump in heat pump cascade: Vitotronic 200, type WO1B, WO1C 	 Oil/gas condensing boilers with the follow- ing weather-compen- sated control units: Vitotronic 200, type HO1, HO1A, HO1B, HO1C Vitotronic 200, type KW6, KW6A, KW6B Vitotronic 200, type HO1D, HO1E, HO2B Boiler with the follow- ing boiler and heating circuit control units: Vitotronic 100, type GC7B Vitotronic 200, type GW7B 		

Installation



static.

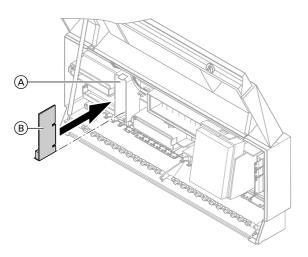
Electronic assemblies can be damaged by electrostatic discharge. Before beginning work, touch earthed objects, e.g. heating or

water pipes, to discharge any

For opening the control units and position (A) in the following diagrams Relevant installation and service instructions

Vitotronic 100, 200, 300, 300-K, 333, 050, 200-H

- Vitotronic 100, type GC1, GC1B, GC4, GC4B
- Vitotronic 200, type GW1, GW1B, GW4B
- Vitotronic 050 and 200-H, type HK1W, HK3W
- Vitotronic 300, type GW2, GW2B, GW4, GW4B
- Vitotronic 300-K, type MW1, MW1B, MW2, MW2B
- Vitotronic 333, type MW2

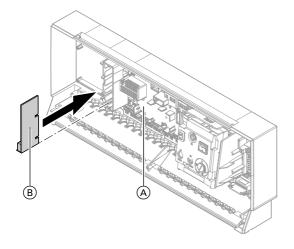


(A) Main control unit PCB

(B) LON communication module

Vitotronic 100, 200, 300, type C...

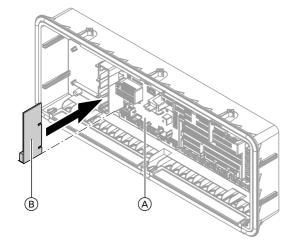
- Vitotronic 100, type CC1E
- Vitotronic 200, type CO1E
- Vitotronic 300, type CM1E



(A) Main control unit PCB

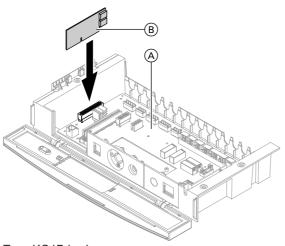
(B) LON communication module

- Vitotronic 100, type CC1I
- Vitotronic 200, type CO1I
- Vitotronic 300, type CM1I



(A) Main control unit PCB

Vitotronic 200, type KO1B, KO2B

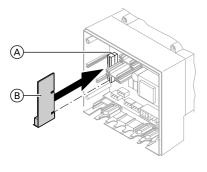


Type KO1B is shown

(A) Main control unit PCB

(B) LON communication module

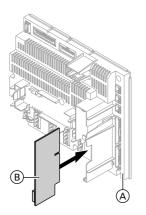
Vitotronic 050 and 200-H, type HK1M



(A) Main control unit PCB

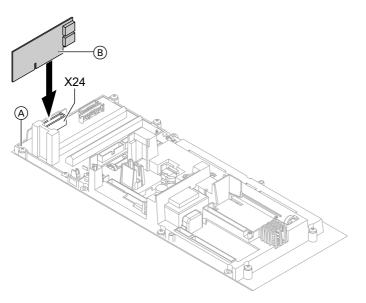
Heat pump control units

Vitotronic 200, type WO1...



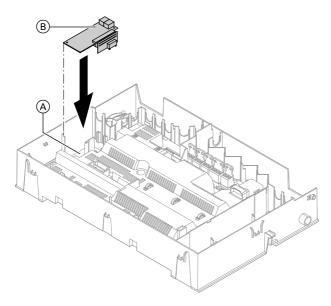
- (A) Controller and sensor PCB(B) LON communication module

WPR300



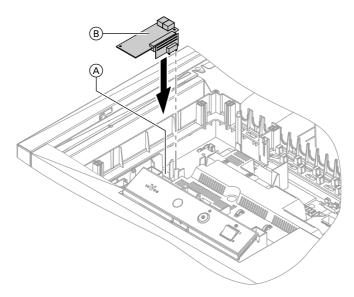
(A) Sensor PCB

Vitotronic 200, type GC7B, HO2B, HO1...

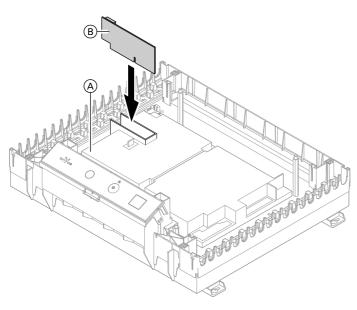


(A) Main PCB

Vitotronic 200, type KW6...



(A) Main PCB



Vitotronic 200, type FO1 and Vitotronic 300, type FW1

(A) PCB heat distribution control

(B) LON communication module

Making the LON connection

The Viessmann LON is designed for "line" bus topology with a terminator at both ends (accessories).

The transfer distances for LON are subject to the electrical properties of the relevant cable. For this reason, only use the specified cable types. Use only one cable type within each LON.

Cable types (on site):

- 2-core cable, CAT5, screened
- JY(St)Y 2 x 2 x 0.8 mm (telephone cable)

Observe the requirements for cabling and operation of the LON interface FTT 10-A.

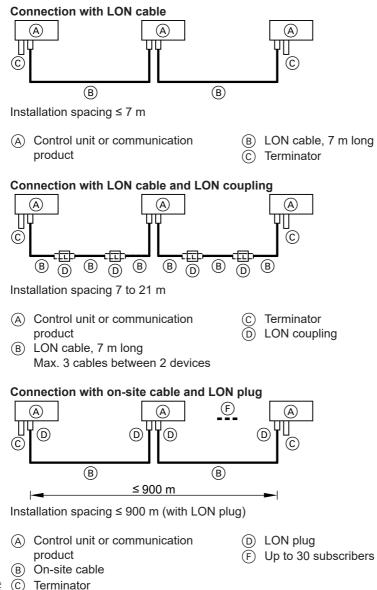
All Viessmann appliances are connected with RJ45 connectors. The Viessmann LON always requires cores "1" and "2" plus the screen. The cores are interchangeable.

Note

When connecting external switching contacts and on-site components, observe the insulation requirements of IEC/EN 60335-1.

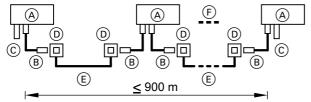
Making the LON connection (cont.)

Connection versions



Making the LON connection (cont.)

Connection with LON cable, on-site cable and LON socket



Installation spacing ≤ 900 m (with LON sockets)

- Control unit or communication product
- B LON cable, 7 m long
- © Terminator

Commissioning and adjustment

Service and installation instructions and service instructions for the relevant appliance

Note

If the LON PCB is installed as a spare part, the LON subscriber list has to be deleted at the control unit that is designated as the fault manager: See installation and service instructions for the control unit.

Viessmann Climate Solutions SE 35108 Allendorf / Germany Telephone: +49 6452 70-0 Fax: +49 6452 70-2780 www.viessmann.com



Viessmann Limited Hortonwood 30, Telford Shropshire, TF1 7YP, GB Telephone: +44 1952 675000 Fax: +44 1952 675040 E-mail: info-uk@viessmann.com

D LON sockets

- E) On-site cable
- Dip to 30 subscribers