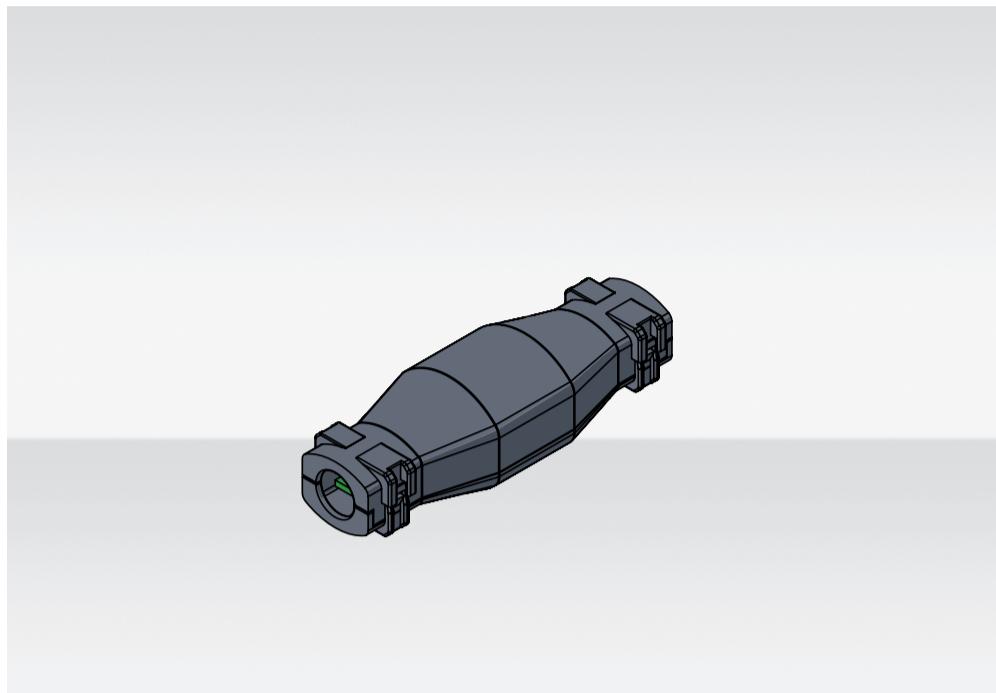


# Quick Installation Guide

## DRM0-INTERFACE



In addition to what is explained below, the safety and installation information provided in the product manual of the inverter (where the equipment is installed) must be read and followed. The technical documentation of the products are available at the website [www.abb.com/solarinverters](http://www.abb.com/solarinverters).

### Preliminary operations

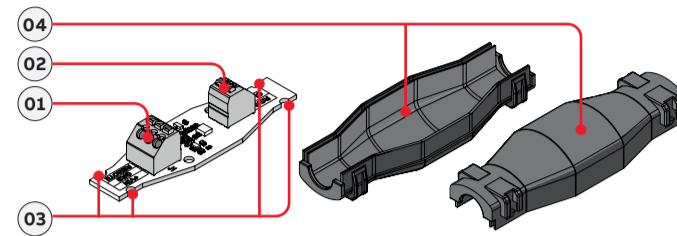
**REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**  
 For safety reasons, only a qualified electrician who has received training and/or demonstrated skills and knowledge of the inverter's structure and operation may install this device in the inverter.

Before the DRM0-INTERFACE has been installed on the inverter, the REMOTE ON/OFF function of the inverter have to be enabled to allow at the DRM0-INTERFACE to power-off the inverter when it is needed: Refer to the Product Manual of the related inverter to know how to enable the REMOTE ON/OFF function.

### Main components

The main components of the DRM0-INTERFACE are shown in the figure and described in the following table:

Main components	
01	Inverter side connector
02	DRM0 side connector
03	Fixing eyelet
04	Enclosure



### List of components supplied

Available components*	Q.ty	Available components*	Q.ty
	1		1
	1	<b>Cable Model 1</b> Single wire + adapter board connector	
	1		1
	1	<b>Cable Model 2</b> 3-wires Cable	
	1+1+1		1
	1	<b>Cable Model 3</b> Single wire + RJ45 connector	
	2		1
		<b>Cable Model 4</b> 2-wires + Connector	
			1

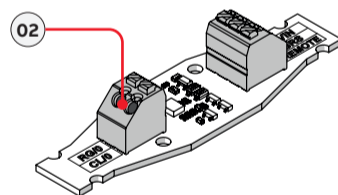
\*The content of the packaging may depend on the DRM0-INTERFACE kit related to the single inverter model.

## DRM0 Installation

- To avoid risks of electrical shock, all wiring operations on the inverter must be carried out:
- with the DC disconnect switch internal (if present) and external (if present, applying LOTO procedures on it) to OFF position.
  - with the AC disconnect switch internal (if present) and external AC disconnect switch (applying LOTO procedures on it) to OFF position.
  - without any voltage supplied on the signal terminals (if present disconnect the voltage and applying LOTO procedures on it).

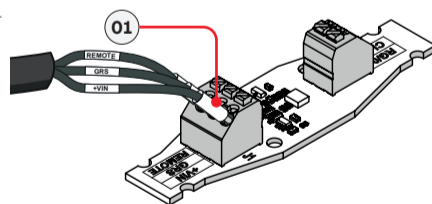
### DRM0 side connection:

To connect the DRM0-INTERFACE to the distribution grid use the DRM0 side connector (02) located in the DRM0-INTERFACE board marked by "J2" silkscreen.



### Inverter side connection:

To connect the DRM0-INTERFACE to the inverter use the Inverter side connector (01) located in the DRM0-INTERFACE board marked by "J1" silkscreen. Each cable type have three wires marked with the same name of terminal of the Inverter side connector (01) (marked in the board silkscreen).



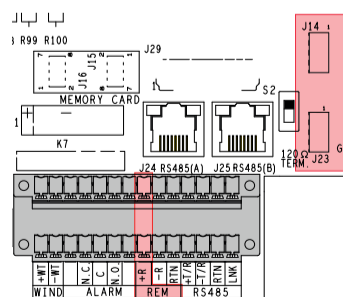
The terminal and the cable type (supplied) to be used to connect the DRM0-INTERFACE to the inverter depend on the model of inverter. The list of the supported inverter models and the related connection procedures are shown below:

Inverter model and connection terminals	Motherboard position
---	----------------------

#### PVI-3.0/3.6/4.2-TL-OUTD (Construction A)

Cable to be used: Model 1  
Adapter board: Yes

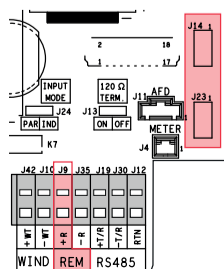
DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J42)
two poles connector	two poles connector on adapter board



#### PVI-3.0/3.6/4.2-TL-OUTD (Construction B)

Cable to be used: Model 1  
Adapter board: Yes

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J3)
two poles connector	two poles connector on adapter board or on J4 METER connector (only if J4 connector is not already used by METER)

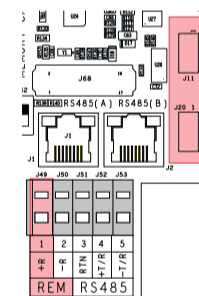


Inverter model and connection terminals	Motherboard position
---	----------------------

#### PVI-5000/6000-TL-OUTD (Construction A)

Cable to be used: Model 1  
Adapter board: Yes

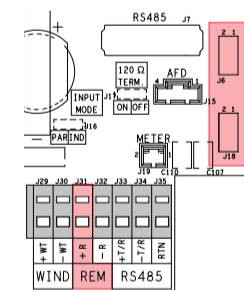
DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J49)
two poles connector	two poles connector on adapter board



#### PVI-5000/6000-TL-OUTD (Construction B)

Cable to be used: Model 1  
Adapter board: Yes

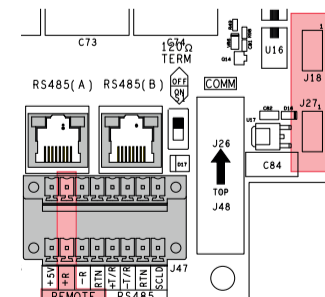
DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J31)
two poles connector	two poles connector on adapter board or on J19 METER connector (only if J19 connector is not already used by METER)



#### PVI-10.0/12.5-TL-OUTD (Construction A)

Cable to be used: Model 1  
Adapter board: Yes

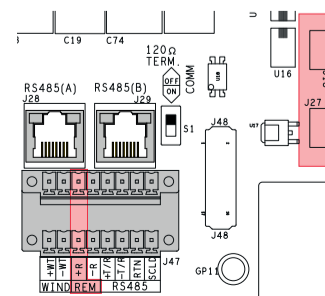
DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J47)
two poles connector	two poles connector on adapter board



#### PVI-10.0/12.5-TL-OUTD (Construction B)

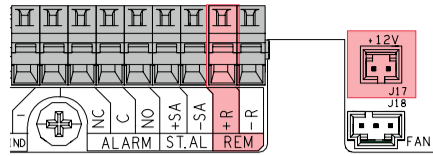
Cable to be used: Model 1  
Adapter board: Yes

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J47)
two poles connector	two poles connector on adapter board



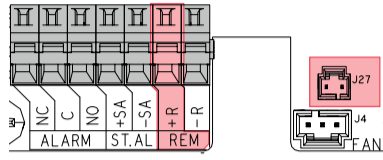
**UNO-2.0/3.0-TL-OUTD**  
 Cable to be used: Model 1  
 Adapter board: No

DRMO-INTERFACE	Inverter terminals
REMOTE	+R (J2)
two poles connector	(J17) "+12V" two poles connector



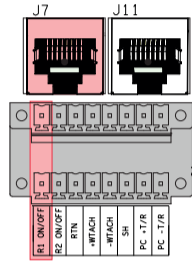
**UNO-3.6/4.2-TL-OUTD**  
 Cable to be used: Model 1  
 Adapter board: No

DRMO-INTERFACE	Inverter terminals
REMOTE	+R (J13)
two poles connector	(J27) two poles connector



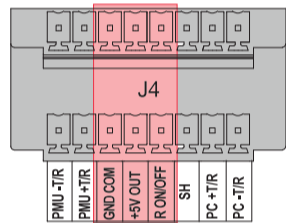
**TRIO-5.0/5.8/7.5/8.5-TL-OUTD**  
 Cable to be used: Model 3  
 Adapter board: No

DRMO-INTERFACE	Inverter terminals
REMOTE	R1 ON/OFF (J4)
two poles connector	J7 (RJ45 Connector)



**TRIO-20.0/27.6-TL-OUTD**  
 Cable to be used: Model 2  
 Adapter board: No

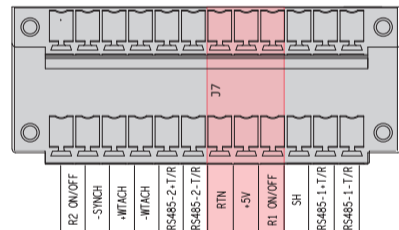
DRMO-INTERFACE	Inverter terminals
REMOTE	R ON/OFF (J4)
+VIN	+5VOUT (J4)
GRS	GND COM (J4)



(Continue to next page)

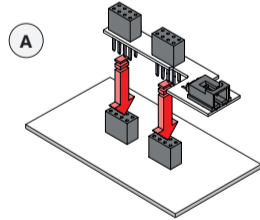
**PVS-50/60-TL**  
 Cable to be used: Model 2  
 Adapter board: No

DRMO-INTERFACE	Inverter terminals
REMOTE	R1 ON/OFF (J7)
+VIN	+5V (J7)
GRS	RTN (J7)

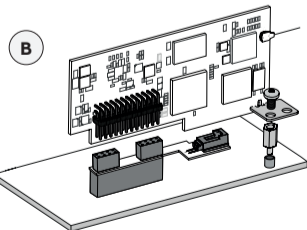


## Installation of the adapter board

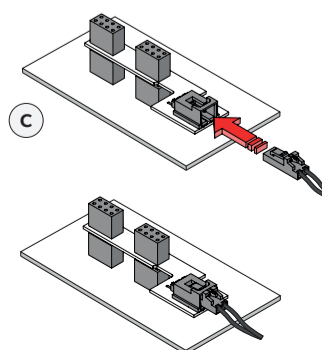
For the models that require the installation of the adapter board (refer to the previous table), see picture (A).



**Note for installation on inverter equipped with WIFI LOGGER CARD (VSN300):**  
 In this case it is necessary to install the standoff (supplied with the packaging) under the mechanical mounting bracket as shown in the picture (B).



After the installation of the adapter board to the inverter it will be possible to connect the DRMO-INTERFACE to the adapter board using the specific connector of cable "Model 1" as shown in the picture (C).

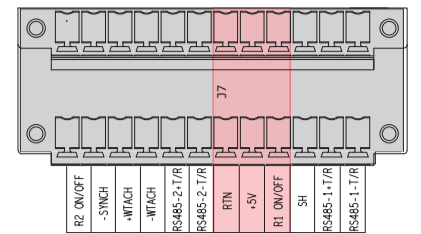


(Continue to next page)

**Inverter model and connection terminals**      **Motherboard position**

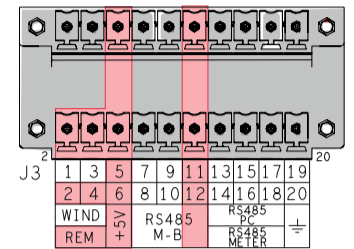
**TRIO-50.0/60.0 TL/TM**  
 Cable to be used: Model 2  
 Adapter board: No

DRMO-INTERFACE	Inverter terminals
REMOTE	R1 ON/OFF (J7)
+VIN	+5V (J7)
GRS	RTN (J7)



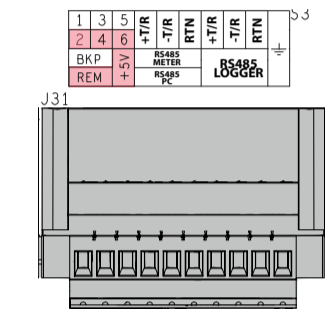
**REACT-UNO-3.6/4.6-TL-OUTD**  
 Cable to be used: Model 2  
 Adapter board: No

DRMO-INTERFACE	Inverter terminals
REMOTE	4 (J3)
+VIN	6 (J3)
GRS	12 (J3)



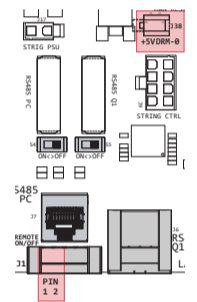
**REACT2-UNO-3.6/5.0-TL**  
 Cable to be used: Model 2  
 Adapter board: No

DRMO-INTERFACE	Inverter terminals
REMOTE	2 (J31)
+VIN	6 (J31)
GRS	4 (J31)



**PVS-100/120-TL**  
 Cable to be used: Model 4  
 Adapter board: No

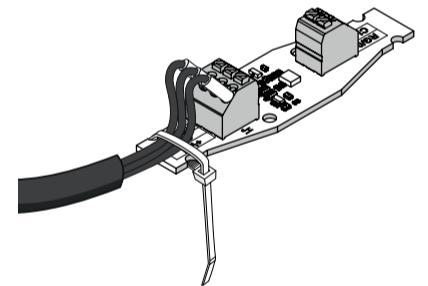
DRMO-INTERFACE	Inverter terminals
REMOTE	1 (J1 - REMOTE ON/OFF)
+VIN	J38 (two poles connector)
GRS	2 (J1 - REMOTE ON/OFF)



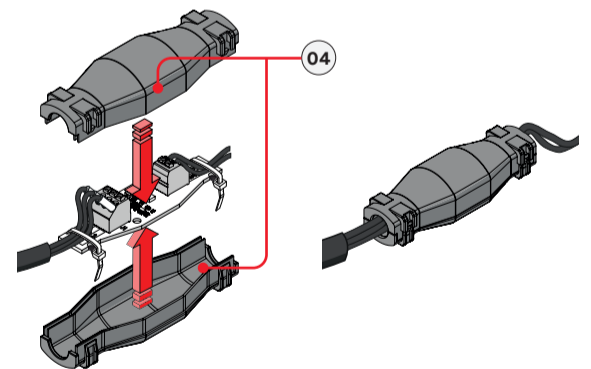
(Continue to next page)

## Final assembly and check

After the installation on the inverter board it will be possible to fix the wires on DRMO-INTERFACE board using the fixing eyelet (03) with the supplied cable tie on both sides.



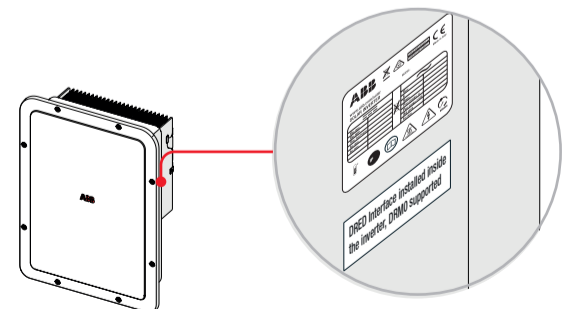
After the cable fixing, close the enclosure (04) to complete the DRMO-INTERFACE assembly.



After the assembly, make sure to put the DRMO-INTERFACE inside the inverter enclosure in a suitable position: The DRMO-INTERFACE device position cannot interfere with mobile parts of the inverter (fans, switch..) or dangerous electrical parts.

To check if the DRMO-INTERFACE works, switch on the inverter and disconnect the wire from DRED: in case of a correct installation the inverter should power-off.

At the end of installation phase, apply the supplied "DRM available label" near the Regulatory label of the inverter. The DRM available label shows which type of DRM is available for the inverter.



## Contact us

www.abb.com/solarinverters

DRMO-INTERFACE-Quick Installation Guide EN-RevG

BCM.00373.1 EFFECTIVE 19-09-2018  
 © Copyright 2018 ABB. All Rights Reserved.  
 Specifications subject to change without notice.

