Product Communication

Certification of ABB inverters to AS/NZS 4777.2:2015

Sydney, 20th May 2016

Dear Customer,

AS/NZS 4777.2:2015 is the Australian standard which stipulates the general rules for grid connected inverters. This standard comes into effect on 9th October 2016. After this date, inverters which are not compliant to this standard will not be acceptable for connection to the grid in Australia. ABB Australia is in the process of certifying inverters according to AS/NZS 4777.2:2015.

Changes to current ABB inverters will include firmware and labelling. Firmware is able to be updated in Australia.

Below is a summary of the models which will be updated with certification to AS/NZS 4777.2:2015:

Inverter Model
PVI-3.0/3.6/4.2-TL-OUTD
PVI-5000/6000-TL-OUTD
TRIO-5.0/5.8/7.5/8.5-TL-OUTD
PVI-10.0/12.5-TL-OUTD
TRIO-27.6/20.0-TL-OUTD

There will be two current models of inverter which will not be certified to AS/NZS 4777.2:2015. It is important to note that although these models will not be certified after the 9th of October, they are still in production in our factory for other markets and will be serviced by ABB for the duration of the warranty period.

The products ABB Australia is not going to certify to AS/NZS 4777.2:2015 are:

Inverter Model	Reason for not certifying
UNO-2.0/2.5-I-OUTD	There is the upcoming release of the UNO-2.0/3.0-TL models which will be certified and provide more features than the current models.
PRO-33.0-TL-OUTD	There is the upcoming release of the TRIO-50.0-TL models which will be certified which provides greater flexibility especially in the hot Australian climate.

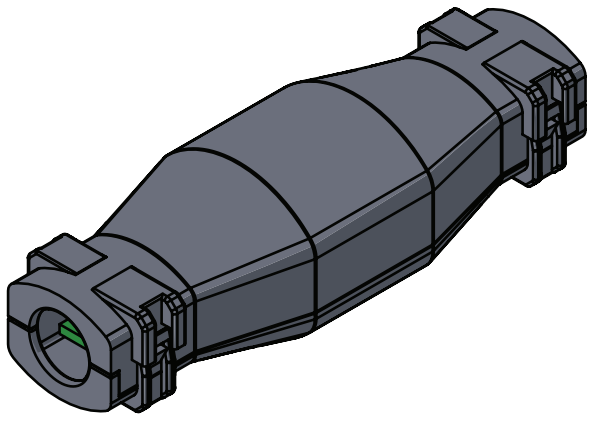
Best Regards

Joseph Kassouf
Solar Product Manager
ABB Power Conversion
ABB Australia Pty Limited

ABB solar inverters

Quick installation guide
DRM0-INTERFACE

EN



BCM.00373.0

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1. Preliminary operations

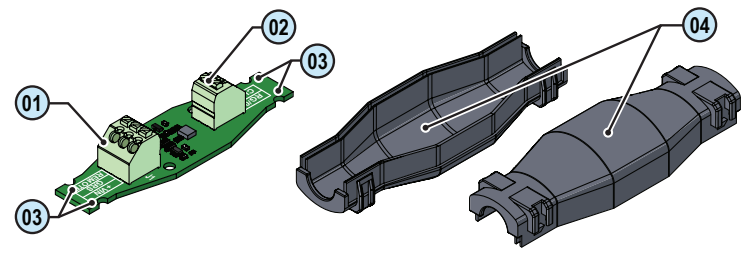
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
For safety reasons, only a qualified electrician who has received training and/or demonstrated skills and knowledge of the inverter's structure and operation may install this device in the inverter.

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 User Manual of the related inverter to know how to enable the REMOTE ON/OFF function.

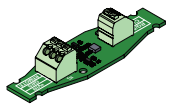
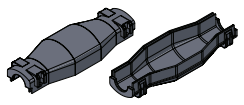
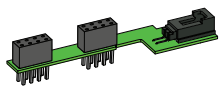
2. Main components

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



3. List of components supplied

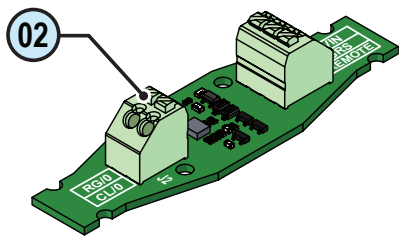
Available components*		Quantity
	DRM0-INTERFACE board	1
	Plastic enclosure	1
	Adapter board	1
	Standhoff	1
	Standhoff screw	1

Available components*		Quantity
	**Cable Model 1** 3-wires Cable	1
	**Cable Model 2** Two-poles connectors Cable	1
	**Cable Model 3** RJ45 connector Cable	1
DRED Interface installed inside the inverter, DRM0 supported	DRM available label	1
	Cable tie	2
	Quick installation guide	1

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

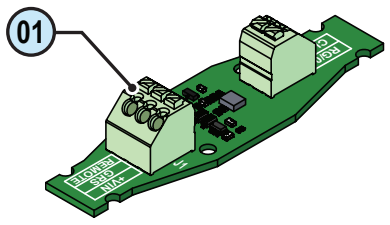
4. DRM0 side connection

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.

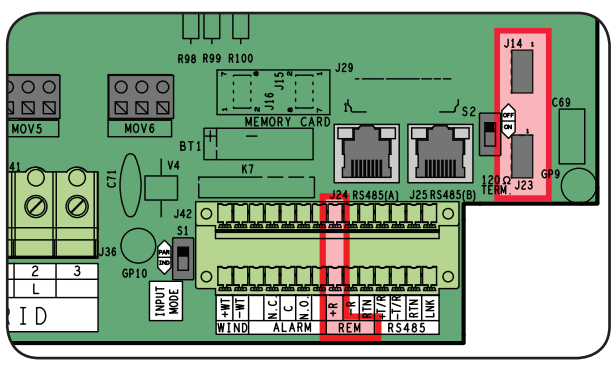


5.1 Inverter side connection

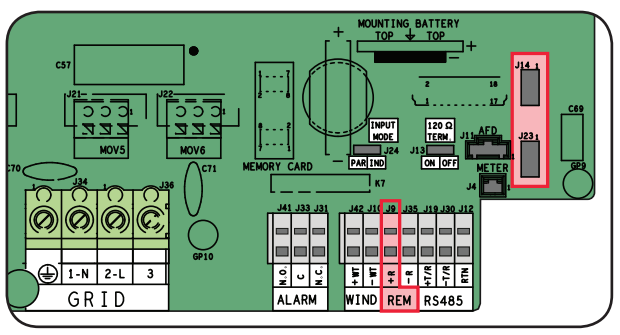
To connect the DRM0-INTERFACE to the inverter use the Inverter side connector (01) located in the DRM0-INTERFACE board marked by "**J1**" silkscreen.
Each cable type have three wires marked with the same name of terminal of the Inverter side connector (01) (marked in the board silkscreen).



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	Cable to be used	Adapter board	Motherboard position and inverter terminals
PVI-3.0/3.6/4.2-TL-OUTD (Construction A)	Model 1	YES	

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

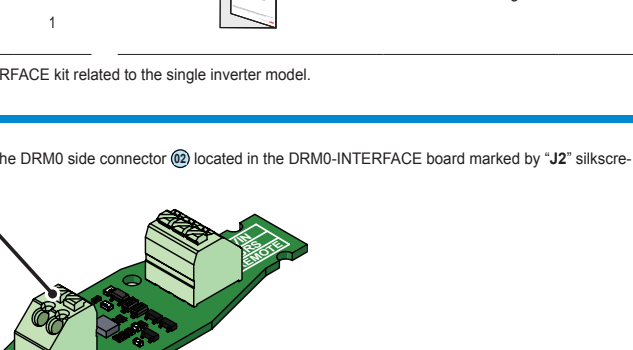
PVI-3.0/3.6/4.2-TL-OUTD (Construction B)	Model 1	YES	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J9)
two poles connector	two poles connector on adapter board or on J4 METER connector (if METER is not present)

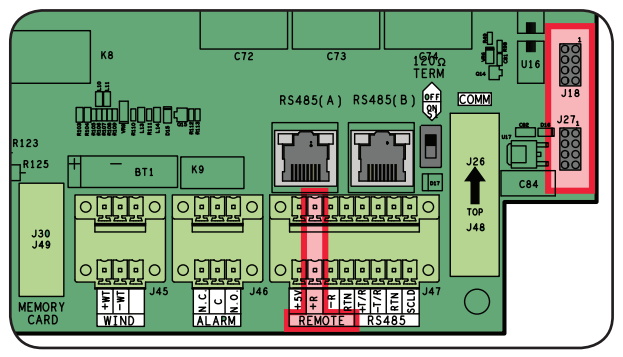
5.2 Inverter side connection

INVERTER MODEL	Cable to be used	Adapter board	Motherboard position and inverter terminals
PVI-5000/6000-TL-OUTD (Construction A)	Model 1	YES	

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

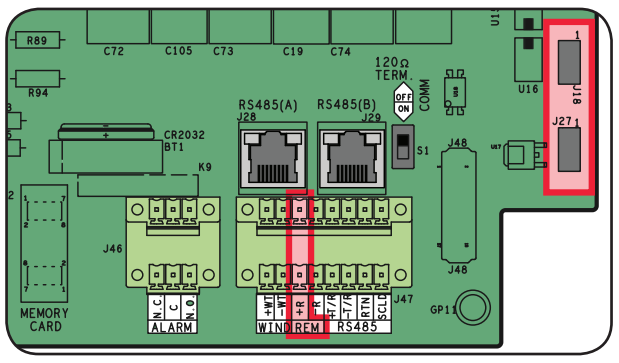
PVI-5000/6000-TL-OUTD (Construction B)	Model 1	YES	

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

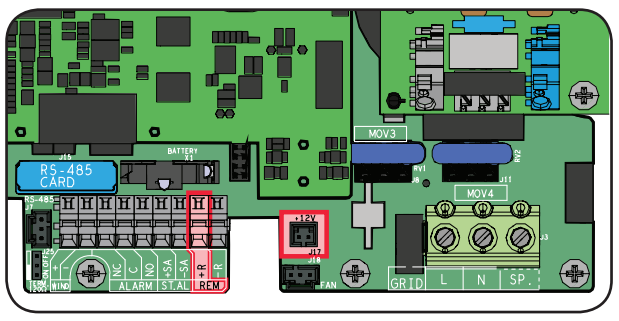
PVI-10.0/12.5-TL-OUTD (Construction A)	Model 1	YES	

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

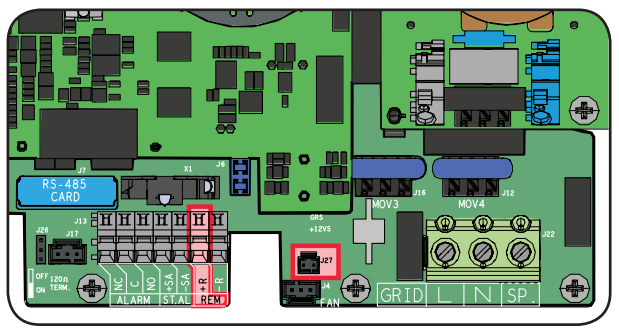
5.3 Inverter side connection

INVERTER MODEL	Cable to be used	Adapter board	Motherboard position and inverter terminals
PVI-10.0/12.5-TL-OUTD (Construction B)	Model 1	YES	

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

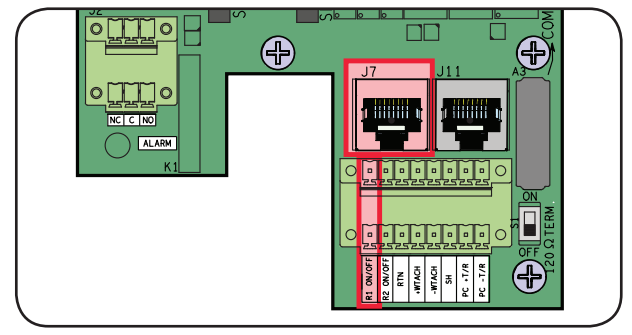
UNO-2.0/3.0-TL-OUTD	Model 1	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J2)
two poles connector	(J17) "+12V" two poles connector

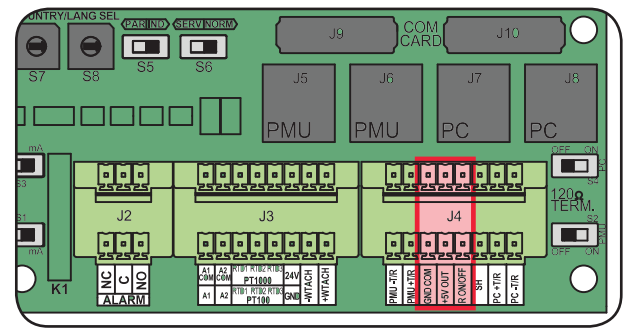
UNO-3.6/4.2-TL-OUTD	Model 1	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J13)
two poles connector	(J27) two poles connector

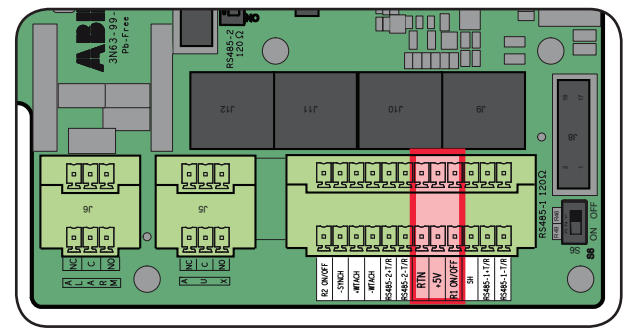
5.4 Inverter side connection

INVERTER MODEL	Cable to be used	Adapter board	Motherboard position and inverter terminals
TRIO-5.0/5.8/7.5/8.5-TL-OUTD	Model 3	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	R1 ON/OFF (J4)
RJ45 Connector	J7 (RJ45 Connector)

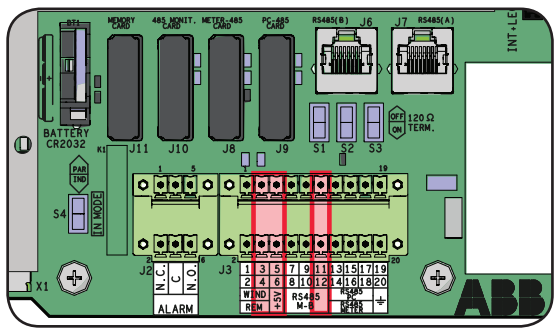
TRIO-20.0/27.6-TL-OUTD	Model 2	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	R ON/OFF (J4)
+VIN	+5VOUT (J4)
GRS	GND COM (J4)

TRIO-50.0-TL-OUTD	Model 2	NO	

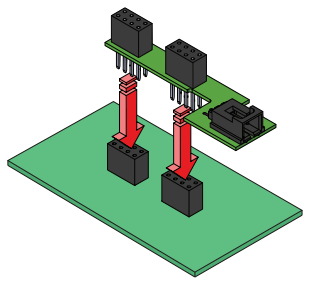
DRM0-INTERFACE	Inverter terminals
REMOTE	R1 ON/OFF (J7)
+VIN	+5V (J7)
GRS	RTN (J7)

5.5 Inverter side connection

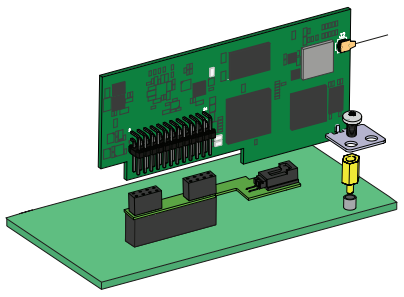
INVERTER MODEL	Cable to be used	Adapter board	Motherboard position and inverter terminals
REACT-UNO-4.6-TL-OUTD	Model 2	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	4 (J3)
+VIN	6 (J3)
GRS	12 (J3)

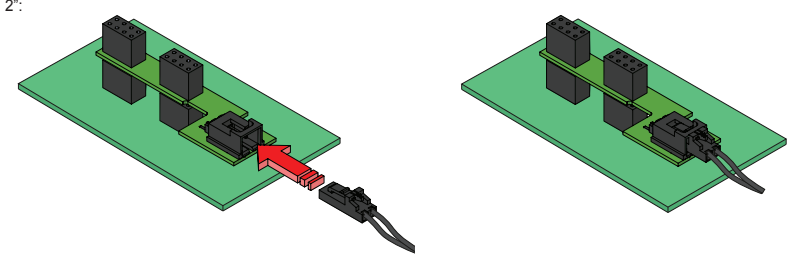
For the models that require the installation of the adapter board (refer to the previous table), follow the procedures below.



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

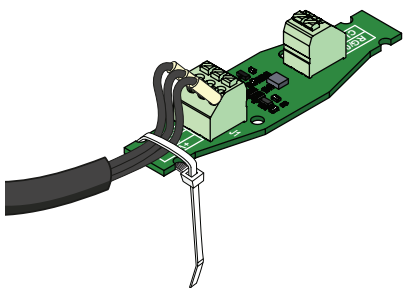


After the installation of the adapter board to the inverter it will be possible to connect the DRM0-INTERFACE to the adapter board using the specific connector of cable "Model 2":

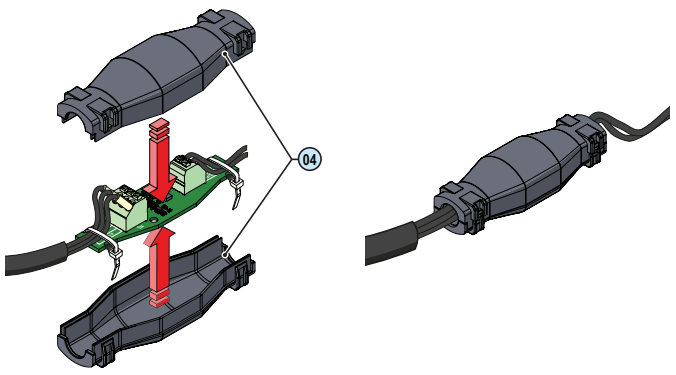


6. Final assembly and check

After the installation on the inverter board it will be possible to fix the wires on DRM0-INTERFACE board using the fixing eyelet (03) with the supplied cable tie on both sides:



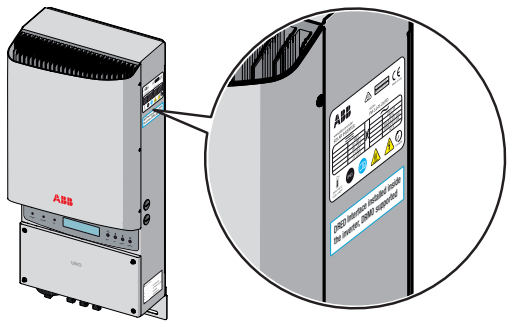
After the cable fixing close the enclosure (04) to complete the DRM0-INTERFACE assembly:



After the assembly, make sure to put the DRM0-INTERFACE inside the inverter enclosure in a suitable position: The DRM0-INTERFACE device position cannot interfere with mobile parts of the inverter (fans, switch..) or dangerous electrical parts.

To check if the DRM0-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 are available for the inverter models.



Contact us

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