

Fronius Datamanager 2.0 blue'Log Driver



DESCRIPTION OF FUNCTIONS

Driver: blue'Log driver for supporting Fronius inverters which will communicate via the Fronius Datamanager 2.0. The Fronius Datamanager can be an external box or a card embedded in the inverter.
The communication occurs via Fronius Sunspec.

COMMUNICATION

Max. number of inverters:	blue'Log X-1000	blue'Log X-3000	blue'Log X-6000
	50 ¹⁾	100 ²⁾	100 ²⁾
Communication interface:	Ethernet (Modbus TCP), RS485 (Modbus RTU)		
Bus speed:	9600 bps (can be configured in the Datamanager)		
Protocol (transmission):	8N1 (can be configured in the Datamanager)		

Depending on the plant configuration one or more inverters with Datcom / Com Card can be connected to the Datamanager via RS422 Solarnet.

It is recommended that not more than 20 inverters get connected to a single Datamanager.

If more than one Datamanager gets connected to a blue'Log then:

- Ethernet (Modbus TCP), connection of maximum one Datamanager
- RS485 (Modbus RTU), connection of more than one Datamanager per interface possible, but not more than 31 inverters

meteocontrol recommends the connection of one Datamanager per RS485 interface to achieve a high data quality and optimized Power Control.

For example:

- Datamanager 1 with 20 inverters connected to RS485-1 on the blue'Log
- Datamanager 2 with 20 inverters connected to RS485-2 on the blue'Log

¹⁾ Maximum of 31 inverters can be managed per bus interface. Connection of MX module RS485/422 is possible as an option. (Please consider the software features of your blue'Log base module. Please take a look in the data sheet of blue'Log.)

²⁾ MX module RS485/422 is necessary because up to 31 inverters can be managed per bus interface. (Please consider the software features of your blue'Log base module. Please take a look in the data sheet of blue'Log.)

POWER CONTROL

Active power control:	Yes ³⁾
Reactive power control:	Yes ⁴⁾

If more than one Datamanager will be connected to a blue'Log it will be necessary to use Modbus RTU (RS485).

Active/reactive power control is not supported by all inverter types. An exact list is available from the inverter manufacturer.

³⁾ Active power control Setpoints < 10% forces standby of the inverter.

⁴⁾ Please consider the software features of your blue'Log base module. Please take a look in the data sheet of blue'Log.

MEASUREMENT VALUES RECORDED

COS_PHI	cos phi
E_TOTAL	Total energy
F_AC	Grid frequency
I_AC	AC current
I_AC (phase 1, 2, 3)	AC current (phase 1,2,3)
I_DC	DC current
P_AC	AC active power
P_DC	DC power
Q_AC	Reactive power
S_AC	Apparent power
STATE	Operating status
T_WR (1, 2, 3...)	Inverter temperature (1,2,3,...)
U_AC (phase 1, 2, 3)	AC voltage (phase 1,2,3)
U_AC_L1L2	Phase to phase voltage L1-L2
U_AC_L2L3	Phase to phase voltage L2-L3
U_AC_L3L1	Phase to phase voltage L3-L1
U_DC	DC voltage

SUPPORTED INVERTERS

Datamanager Box 2.0	Fronius Galvo	Fronius Symo	Fronius Primo
	Fronius IG	Fronius IG Plus	Fronius IG Plus V
	Fronius IG Plus A	Fronius CL	Fronius CL USA
	Fronius IG 300 - 500	Fronius Eco	
Datamanager 2.0 (Card) without Com Card-Function	Fronius Galvo	Fronius Symo	Fronius Primo
	Fronius Eco		
Datamanager 2.0 (Card) with Com Card-Function	Fronius IG	Fronius IG Plus	Fronius IG Plus V
	Fronius IG Plus A	Fronius CL	Fronius CL USA
	Fronius IG 300 - 500		

Please contact Sales for details of compatibility with inverters not listed.
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