

eWon drivers - Driver Details

Fronius

Summary

1.	Fronius Driver Details	2
1.1.	TAG list.....	2
1.2.	Decode inverter state value	2
1.3.	Default serial port configuration	3
1.4.	Slave configuration	3
1.5.	Tested Devices	3

1. Fronius Driver Details

1.1. TAG list

Postfix TagName	Description	Type
_Pout	Power - NOW [W]	Floating point
_TotalEnergy	Energy - TOTAL [Wh]	DWord
_TodayEnergy	Energy - DAY [Wh]	DWord
_YearEnergy	Energy - YEAR [Wh]	DWord
_Iout	AC current - NOW [A]	Floating point
_Vout	AC voltage - NOW [V]	Floating point
_Fout	AC frequency - NOW [Hz]	Floating point
_Iin	DC current - NOW [A]	Floating point
_Vin	DC voltage - NOW [V]	Floating point
_DayYield	Yield - DAY	Floating point
_DayMaxP	Maximum power [W]	Floating point
_DayMaxVCA	Maximum AC voltage - DAY [V]	Floating point
_DayMinVCA	Minimum AC voltage - DAY [V]	Floating point
_DayMinVCC	Maximum DC voltage - DAY [V]	Floating point
_DayOnTime	Operating hours - DAY [Min]	Floating point
_YearYield	Yield - YEAR	Floating point
_YearMaxP	Maximum power - YEAR [W]	Floating point
_YearMaxVCA	Maximum AC voltage - YEAR [V]	Floating point
_YearMinVCA	Minimum AC voltage - YEAR [V]	Floating point
_YearMinVCC	Maximum DC voltage - YEAR [V]	Floating point
_YearOnTime	Operating hours - YEAR [Min]	Floating point
_TotalYield	Yield - TOTAL	Floating point
_TotalMaxP	Maximum power - TOTAL [W]	Floating point
_TotalMaxVCA	Maximum AC voltage - TOTAL [V]	Floating point
_TotalMinVCA	Minimum AC voltage - TOTAL [V]	Floating point
_TotalMinVCC	Maximum DC voltage - TOTAL [V]	Floating point
_TotalOnTime	Operating hours - TOTAL	Floating point
_IoutR	Phase current for phase 1 [A]	Floating point
_IoutS	Phase current for phase 2 [A]	Floating point
_IoutT	Phase current for phase 3 [A]	Floating point
_VoutR	Phase voltage for phase 1 [V]	Floating point
_VoutS	Phase voltage for phase 2 [V]	Floating point
_VoutT	Phase voltage for phase 3 [V]	Floating point
_Temp	Ambient temperature [°C]	Floating point
_Fan1	Fan 1 rotation speed [rpm]	Floating point
_Fan2	Fan 2 rotation speed [rpm]	Floating point
_Fan3	Fan 3 rotation speed [rpm]	Floating point
_Fan4	Fan 4 rotation speed [rpm]	Floating point
_TotalExEnergy	Energy total ex [Wh/kWh]	3
_State	Inverter status	Integer

1.2. Decode inverter state value

State value	Description	Explanation
1	Startup	The inverter is in the startup phase
2	Operation	The inverter working with power supply
3	Manual Standby	The inverter has been put into standby mode by the user
4	Failure	The inverter managing a state

1.3. Default serial port configuration

Default inverter configuration: 19200 8-N-1

Serial port configuration tag description (RS-422):

COM0	FroniusPort**Serial**comm:com:0;baudrate=19200;blocking=on;autocts=off;autorts=off
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1.4. Slave configuration

For each device (inverter) must be defined a tag named INVn (e.g. : INV1) where n is the number of device starting from 1.

Description of INVn tag is used by the driver to read some parameters, as described below :

*commname**nodeAddress**timeoutMs*

Example :

INV1	COM0**1*1000
INV2	COM0**2*1000

INV1 is read on port COM0, the node address is 1 and the timeout for each request is 1 second.

1.5. Tested Devices

- FRONIUS CL series width RS-422