

INSTRUCTION
MANUAL

PROFIBUS DPV1 configuration for DIRIS A-40

EN



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1. DOCUMENTATION

This documentation describes PROFIBUS configuration for DIRIS A-40 reference 48250502. All the other functionalities are described in the DIRIS A-40 instruction manual and information about communication tables are detailed in the Modbus communication tables.

The instruction manual and the Modbus communication tables are available on the website at the following address:

www.socomec.com/en/documentation/diris-a40



2. USE OF THE PROFIBUS DPV1 MODULES

2.1. MODULES DESCRIPTION

19 Modules are available. All Modules are already configured except Custom Modules 17 and 18 which are configurable.

Module 1	INPUT	F/V/U/I inst.	Type	Bytes	Unit
Module 1	IN0100	Frequency	U32	4	mHz
Module 1	IN0101	Ph-N Voltage : V1	U32	4	V/100
Module 1	IN0102	Ph-N Voltage : V2	U32	4	V/100
Module 1	IN0103	Ph-N Voltage : V3	U32	4	V/100
Module 1	IN0104	Ph-N Voltage : Vn	U32	4	V/100
Module 1	IN0105	Ph-Ph Voltage : U12	U32	4	V/100
Module 1	IN0106	Ph-Ph Voltage : U23	U32	4	V/100
Module 1	IN0107	Ph-Ph Voltage : U31	U32	4	V/100
Module 1	IN0108	Current : I1	U32	4	mA
Module 1	IN0109	Current : I2	U32	4	mA
Module 1	IN0110	Current : I3	U32	4	mA
Module 1	IN0111	Current : In	U32	4	mA
		Total		48	

Module 2	INPUT	F/V/U/I avg.	Type	Bytes	Unit
Module 2	IN0200	Frequency	U32	4	mHz
Module 2	IN0201	Ph-N Voltage : V1	U32	4	V/100
Module 2	IN0202	Ph-N Voltage : V2	U32	4	V/100
Module 2	IN0203	Ph-N Voltage : V3	U32	4	V/100
Module 2	IN0204	Ph-N Voltage : Vn	U32	4	V/100
Module 2	IN0205	Ph-Ph Voltage : U12	U32	4	V/100
Module 2	IN0206	Ph-Ph Voltage : U23	U32	4	V/100
Module 2	IN0207	Ph-Ph Voltage : U31	U32	4	V/100
Module 2	IN0208	Current : I1	U32	4	mA
Module 2	IN0209	Current : I2	U32	4	mA
Module 2	IN0210	Current : I3	U32	4	mA
Module 2	IN0211	Current : In	U32	4	mA
		Total		48	

Module 3	INPUT	P/Q/S/PF Tot. inst.	Type	Bytes	Unit
Module 3	IN0300	Total active power	S32	4	W
Module 3	IN0301	Total reactive power	S32	4	var
Module 3	IN0302	Total lagging reactive power	S32	4	var
Module 3	IN0303	Total leading reactive power	S32	4	var
Module 3	IN0304	Total apparent power	U32	4	var
Module 3	IN0305	Total power factor	S16	2	-/1000
Module 3	IN0306	Total Power factor type	U16	2	1 : leading 2 : lagging
		Total		24	

Module 4	INPUT	P/Q/S/PF Tot. avg.	Type	Bytes	Unit
Module 4	IN0400	Total active power	S32	4	W
Module 4	IN0401	Total reactive power	S32	4	var
Module 4	IN0402	Total lagging reactive power	S32	4	var
Module 4	IN0403	Total leading reactive power	S32	4	var
Module 4	IN0404	Total apparent power	U32	4	var
Module 4	IN0405	Total power factor	S16	2	-/1000
Module 4	IN0406	Total Power factor type	U16	2	1 : leading 2 : lagging
		Total		24	

Module 5	INPUT	P/Q/S/PF Phase inst.	Type	Bytes	Unit
Module 5	IN0500	Active power : P1	S32	4	W
Module 5	IN0501	Active power : P2	S32	4	W
Module 5	IN0502	Active power : P3	S32	4	W
Module 5	IN0503	Reactive power : Q1	S32	4	var
Module 5	IN0504	Reactive power : Q2	S32	4	var
Module 5	IN0505	Reactive power : Q3	S32	4	var
Module 5	IN0506	Apparent power : S1	U32	4	VA
Module 5	IN0507	Apparent power : S2	U32	4	VA
Module 5	IN0508	Apparent power : S3	U32	4	VA
Module 5	IN0509	Power factor : PF1	S16	2	-/1000
Module 5	IN0510	Power factor : PF2	S16	2	-/1000
Module 5	IN0511	Power factor : PF3	S16	2	-/1000
Module 5	IN0512	Power factor type : sPF1	U16	2	1 : leading 2 : lagging
Module 5	IN0513	Power factor type : sPF2	U16	2	1 : leading 2 : lagging
Module 5	IN0514	Power factor type : sPF3	U16	2	1 : leading 2 : lagging
		Total		48	

Module 6	INPUT	P/Q/S/PF Phase avg.	Type	Bytes	Unit
Module 6	IN0600	Active power : P1	S32	4	W
Module 6	IN0601	Active power : P2	S32	4	W
Module 6	IN0602	Active power : P3	S32	4	W
Module 6	IN0603	Reactive power : Q1	S32	4	var
Module 6	IN0604	Reactive power : Q2	S32	4	var
Module 6	IN0605	Reactive power : Q3	S32	4	var
Module 6	IN0606	Apparent power : S1	U32	4	VA
Module 6	IN0607	Apparent power : S2	U32	4	VA
Module 6	IN0608	Apparent power : S3	U32	4	VA
Module 6	IN0609	Power factor : PF1	S16	2	-/1000
Module 6	IN0610	Power factor : PF2	S16	2	-/1000
Module 6	IN0611	Power factor : PF3	S16	2	-/1000
Module 6	IN0612	Power factor type : sPF1	U16	2	1 : leading 2 : lagging
Module 6	IN0613	Power factor type : sPF2	U16	2	1 : leading 2 : lagging
Module 6	IN0614	Power factor type : sPF3	U16	2	1 : leading 2 : lagging
		Total		48	

Module 7	INPUT	Unbalance inst.	Type	Bytes	Unit
Module 7	IN0700	Inba	U16	2	%/100
Module 7	IN0701	ldir	U32	4	mA
Module 7	IN0702	linv	U32	4	mA
Module 7	IN0703	lhom	U32	4	mA
Module 7	IN0704	Inb	U16	2	%/100
Module 7	IN0705	Vdir	U32	4	V/100
Module 7	IN0706	Vinv	U32	4	V/100
Module 7	IN0707	Vhom	U32	4	V/100
Module 7	IN0708	Vnb	U16	2	%/100
Module 7	IN0709	Udir	U32	4	V/100
Module 7	IN0710	Uinv	U32	4	V/100
Module 7	IN0711	Unb	U16	2	%/100
Module 7	IN0712	Vnba	U16	2	%/100
Module 7	IN0713	Unba	U16	2	%/100
		Total		44	

Module 8	INPUT	Unbalance avg.	Type	Bytes	Unit
Module 8	IN0800	Inba	U16	2	%/100
Module 8	IN0801	ldir	U32	4	mA
Module 8	IN0802	linv	U32	4	mA
Module 8	IN0803	lhom	U32	4	mA
Module 8	IN0804	Inb	U16	2	%/100
Module 8	IN0805	Vdir	U32	4	V/100
Module 8	IN0806	Vinv	U32	4	V/100
Module 8	IN0807	Vhom	U32	4	V/100
Module 8	IN0808	Vnb	U16	2	%/100
Module 8	IN0809	Udir	U32	4	V/100
Module 8	IN0810	Uinv	U32	4	V/100
Module 8	IN0811	Unb	U16	2	%/100
Module 8	IN0812	Vnba	U16	2	%/100
Module 8	IN0813	Unba	U16	2	%/100
		Total		44	

Module 9	INPUT	THD/TDD/K-Factor inst.	Type	Bytes	Unit
Module 9	IN0900	Ph-N Voltage total harmonic distortion : THD V1	U16	2	%/100
Module 9	IN0901	Ph-N Voltage total harmonic distortion : THD V2	U16	2	%/100
Module 9	IN0902	Ph-N Voltage total harmonic distortion : THD V3	U16	2	%/100
Module 9	IN0903	Ph-Ph Voltage total harmonic distortion : THD U12	U16	2	%/100
Module 9	IN0904	Ph-Ph Voltage total harmonic distortion : THD U23	U16	2	%/100
Module 9	IN0905	Ph-Ph Voltage total harmonic distortion : THD U31	U16	2	%/100
Module 9	IN0906	Curent total harmonic distortion : THD I1	U16	2	%/100
Module 9	IN0907	Curent total harmonic distortion : THD I2	U16	2	%/100
Module 9	IN0908	Curent total harmonic distortion : THD I3	U16	2	%/100
Module 9	IN0909	Curent total harmonic distortion : THD In	U16	2	%/100
Module 9	IN0910	K-Factor I1	U16	2	-/100
Module 9	IN0911	K-Factor I2	U16	2	-/100
Module 9	IN0912	K-Factor I3	U16	2	-/100
Module 9	IN0913	K-Factor In	U16	2	-/100
Module 9	IN0914	TDD I1	U16	2	%/100
Module 9	IN0915	TDD I2	U16	2	%/100
Module 9	IN0916	TDD I3	U16	2	%/100
Module 9	IN0917	TDD In	U16	2	%/100
		Total		36	

Module 10	INPUT	Total energy	Type	Bytes	Unit
Module 10	IN1000	Total Hour meter	U32	4	s
Module 10	IN1001	Total Positive active Energy : Ea+	U32	4	kWh
Module 10	IN1002	Total Residual positive active Energy : rEa+	U16	2	Wh/10
Module 10	IN1003	Total Negative active Energy : Ea-	U32	4	kWh
Module 10	IN1004	Total Residual negative active Energy : rEa-	U16	2	Wh/10
Module 10	IN1005	Total Positive reactive Energy : Er+	U32	4	kvarh
Module 10	IN1006	Total Residual positive reactive Energy : rEr+	U16	2	varh/10
Module 10	IN1007	Total Negative reactive Energy : Er-	U32	4	kvarh
Module 10	IN1008	Total Residual negative reactive Energy : rEr-	U16	2	varh/10
Module 10	IN1009	Total Apparent Energy : Eap	U32	4	kVAh
Module 10	IN1010	Total Residual apparent Energy : rEap	U16	2	VAh/10
		Total		34	

Module 11	INPUT	Partial energy	Type	Bytes	Unit
Module 11	IN1100	Partial Hour meter	U32	4	s
Module 11	IN1101	Partial positive active Energy : Ea+	U32	4	kWh
Module 11	IN1102	Partial residual positive active Energy : rEa+	U16	2	Wh/10
Module 11	IN1103	Partial negative active Energy : Ea-	U32	4	kWh
Module 11	IN1104	Partial residual negative active Energy : rEa-	U16	2	Wh/10
Module 11	IN1105	Partial positive reactive Energy : Er+	U32	4	kvarh
Module 11	IN1106	Partial residual positive reactive Energy : rEr+	U16	2	varh/10
Module 11	IN1107	Partial negative reactive Energy : Er-	U32	4	kvarh
Module 11	IN1108	Partial residual negative reactive Energy : rEr-	U16	2	varh/10
Module 11	IN1109	Partial Apparent Energy : Eap	U32	4	kVAh
Module 11	IN1110	Partial residual apparent Energy : rEap	U16	2	VAh/10
		Total		34	

Module 12	INPUT	Multi-fluid feeder	Type	Bytes	Unit
Module 12	IN1200	Total - Multi-fluid feeder #1	S64	8	-/100
Module 12	IN1201	Partial - Multi-fluid feeder #1	S64	8	-/100
Module 12	IN1202	Total - Multi-fluid feeder #2	S64	8	-/100
Module 12	IN1203	Partial - Multi-fluid feeder #2	S64	8	-/100
Module 12	IN1204	Total - Multi-fluid feeder #3	S64	8	-/100
Module 12	IN1205	Partial - Multi-fluid feeder #3	S64	8	-/100
		Total		48	

Module 13	INPUT	Fresnel	Type	Bytes	Unit
Module 13	IN1300	Ph-N voltage: V1h1	U32	4	V/100
Module 13	IN1301	Ph-N voltage: V2h1	U32	4	V/100
Module 13	IN1302	Ph-N voltage: V3h1	U32	4	V/100
Module 13	IN1303	Ph-N voltage phase: phV1h1	S16	2	°/10
Module 13	IN1304	Ph-N voltage phase: phV2h1	S16	2	°/10
Module 13	IN1305	Ph-N voltage phase: phV3h1	S16	2	°/10
Module 13	IN1306	Ph-Ph voltage: U12h1	U32	4	V/100
Module 13	IN1307	Ph-Ph voltage: U23h1	U32	4	V/100
Module 13	IN1308	Ph-Ph voltage: U31h1	U32	4	V/100
Module 13	IN1309	Ph-Ph voltage phase: phU12h1	S16	2	°/10
Module 13	IN1310	Ph-Ph voltage phase: phU23h1	S16	2	°/10
Module 13	IN1311	Ph-Ph voltage phase: phU31h1	S16	2	°/10

Module 13	IN1312	Current: I1h1	U32	4	mA
Module 13	IN1313	Current: I2h1	U32	4	mA
Module 13	IN1314	Current: I3h1	U32	4	mA
Module 13	IN1315	Current phase: ph1h1	S16	2	°/10
Module 13	IN1316	Current phase: ph2h1	S16	2	°/10
Module 13	IN1317	Current phase: ph3h1	S16	2	°/10
		Total		54	

Module 14	INPUT	Harmonics V	Type	Bytes	Unit
Module 14	IN1400	harmonic V1 row 3	U16	2	%/100
Module 14	IN1401	harmonic V2 row 3	U16	2	%/100
Module 14	IN1402	harmonic V3 row 3	U16	2	%/100
Module 14	IN1403	harmonic V1 row 5	U16	2	%/100
Module 14	IN1404	harmonic V2 row 5	U16	2	%/100
Module 14	IN1405	harmonic V3 row 5	U16	2	%/100
Module 14	IN1406	harmonic V1 row 7	U16	2	%/100
Module 14	IN1407	harmonic V2 row 7	U16	2	%/100
Module 14	IN1408	harmonic V3 row 7	U16	2	%/100
Module 14	IN1409	harmonic V1 row 9	U16	2	%/100
Module 14	IN1410	harmonic V2 row 9	U16	2	%/100
Module 14	IN1411	harmonic V3 row 9	U16	2	%/100
		Total		24	

Module 15	INPUT	Harmonics U	Type	Bytes	Unit
Module 15	IN1500	harmonic U12 row 3	U16	2	%/100
Module 15	IN1501	harmonic U23 row 3	U16	2	%/100
Module 15	IN1502	harmonic U31 row 3	U16	2	%/100
Module 15	IN1503	harmonic U12 row 5	U16	2	%/100
Module 15	IN1504	harmonic U23 row 5	U16	2	%/100
Module 15	IN1505	harmonic U31 row 5	U16	2	%/100
Module 15	IN1506	harmonic U12 row 7	U16	2	%/100
Module 15	IN1507	harmonic U23 row 7	U16	2	%/100
Module 15	IN1508	harmonic U31 row 7	U16	2	%/100
Module 15	IN1509	harmonic U12 row 9	U16	2	%/100
Module 15	IN1510	harmonic U23 row 9	U16	2	%/100
Module 15	IN1511	harmonic U31 row 9	U16	2	%/100
		Total		24	

Module 16	INPUT	Harmonics I	Type	Bytes	Unit
Module 16	IN1600	harmonic I1 row 3	U16	2	%/100
Module 16	IN1601	harmonic I2 row 3	U16	2	%/100
Module 16	IN1602	harmonic I3 row 3	U16	2	%/100
Module 16	IN1603	harmonic In row 3	U16	2	%/100
Module 16	IN1604	harmonic I1 row 5	U16	2	%/100
Module 16	IN1605	harmonic I2 row 5	U16	2	%/100
Module 16	IN1606	harmonic I3 row 5	U16	2	%/100
Module 16	IN1607	harmonic In row 5	U16	2	%/100
Module 16	IN1608	harmonic I1 row 7	U16	2	%/100
Module 16	IN1609	harmonic I2 row 7	U16	2	%/100
Module 16	IN1610	harmonic I3 row 7	U16	2	%/100
Module 16	IN1611	harmonic In row 7	U16	2	%/100
Module 16	IN1612	harmonic I1 row 9	U16	2	%/100
Module 16	IN1613	harmonic I2 row 9	U16	2	%/100
Module 16	IN1614	harmonic I3 row 9	U16	2	%/100
Module 16	IN1615	harmonic In row 9	U16	2	%/100
		Total		32	

Module 17	INPUT	Short Custom	Type	Bytes	Unit
Module 17	IN1700	Input variable 1	U32	4	-
Module 17	IN1701	Input variable 2	U32	4	-
Module 17	IN1702	Input variable 3	U32	4	-
Module 17	IN1703	Input variable 4	U32	4	-
		Total		16	

Module 18	INPUT	Long Custom	Type	Bytes	Unit
Module 18	IN1800	Input variable 1	U32	4	-
Module 18	IN1801	Input variable 2	U32	4	-
Module 18	IN1802	Input variable 3	U32	4	-
Module 18	IN1803	Input variable 4	U32	4	-
Module 18	IN1804	Input variable 5	U32	4	-
Module 18	IN1805	Input variable 6	U32	4	-
Module 18	IN1806	Input variable 7	U32	4	-
Module 18	IN1807	Input variable 8	U32	4	-
Module 18	IN1808	Input variable 9	U32	4	-
Module 18	IN1809	Input variable 10	U32	4	-
Module 18	IN1810	Input variable 11	U32	4	-
Module 18	IN1811	Input variable 12	U32	4	-
Module 18	IN1812	Input variable 13	U32	4	-
Module 18	IN1813	Input variable 14	U32	4	-
Module 18	IN1814	Input variable 15	U32	4	-
Module 18	IN1815	Input variable 16	U32	4	-
		Total		64	

Module 19	OUTPUT		Type	Bytes	Unit
Module 19	OUT1900	0x3F : Value to reset partial meters	U16	2	-
Module 19	OUT1901	Following values can be used as bitfields: 0x01 : Value to reset partial meters of Multi-fluid #1 0x02 : Value to reset partial meters of Multi-fluid #2 0x04 : Value to reset partial meters of Multi-fluid #3	U16	2	-
Module 19	OUT1902	Following values can be used as bitfields: 0x01 : Value to deactivate digital output #1 0x02 : Value to deactivate digital output #2	U16	2	-
Module 19	OUT1903	Following values can be used as bitfields: 0x01 : Value to activate digital output #1 0x02 : Value to activate digital output #2	U16	2	-
Module 19	OUT1904	0x01 to 0x00 : Sequence to start LED ON blinking	U16	2	-
Module 19	OUT1905	Send ""Ack ID"" to acknowledge associated alarm Note : By default, send 0xFF to avoid unwanted alarm acknowledgement	U16	2	-
Module 19	OUT1906	Following values can be used as bitfields: 0x01 : Reset alarm log 0x02 : Reset quality events log 0x08 : Reset load curves 0x10 : Reset trends	U16	2	-
Module 19	OUT1907	0x01 : Value to send a load curves top synchro	U16	2	-
		Total		16	-

2.2. MODULES DESCRIPTION

For the 17 and 18 Custom Modules, the values are converted in a 32 bit number whatever the size of the configured input variable.

Module 17	INPUT	Short Custom	Type	Bytes	Unit
Module 17	IN1700	Input variable 1	U32	4	-
Module 17	IN1701	Input variable 2	U32	4	-
Module 17	IN1702	Input variable 3	U32	4	-
Module 17	IN1703	Input variable 4	U32	4	-
		Total		16	

Module 18	INPUT	Long Custom	Type	Bytes	Unit
Module 18	IN1800	Input variable 1	U32	4	-
Module 18	IN1801	Input variable 2	U32	4	-
Module 18	IN1802	Input variable 3	U32	4	-
Module 18	IN1803	Input variable 4	U32	4	-
Module 18	IN1804	Input variable 5	U32	4	-
Module 18	IN1805	Input variable 6	U32	4	-
Module 18	IN1806	Input variable 7	U32	4	-
Module 18	IN1807	Input variable 8	U32	4	-
Module 18	IN1808	Input variable 9	U32	4	-
Module 18	IN1809	Input variable 10	U32	4	-
Module 18	IN1810	Input variable 11	U32	4	-
Module 18	IN1811	Input variable 12	U32	4	-
Module 18	IN1812	Input variable 13	U32	4	-
Module 18	IN1813	Input variable 14	U32	4	-
Module 18	IN1814	Input variable 15	U32	4	-
Module 18	IN1815	Input variable 16	U32	4	-
		Total		64	

The configuration is done via Easy Config software. An example is described below for Module 17.

STEP 1 : Choose the relevant input variables in Modbus communication tables:

For instance System Phase-Neutral Voltage, System Current, Positive Active Energy (Ea+) are selected as shown in the following screenshots:

Loads

Inst

Load Inst.

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
18432	0x4800	Info	92	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data type
18432	0x4800	1	Load status 0 : Disabled 1 : Enabled	-	U8
18433	0x4801	2	Date of last instance	s	DATETIME
18435	0x4803	1	Integration time	s / 5	U16
18436	0x4804	2	System Ph-N Voltage	V 10 ²	U32
18438	0x4806	2	System Ph-Ph Voltage	V 10 ²	U32
18440	0x4808	2	System Current	mA	U32
18442	0x480A	2	Frequency	mHz	U32
18444	0x480C	2	Ph-N Voltage : V1	V 10 ²	U32
18446	0x480E	2	Ph-N Voltage : V2	V 10 ²	U32
18448	0x4810	2	Ph-N Voltage : V3	V 10 ²	U32
18450	0x4812	2	Ph-N Voltage : Vn	V 10 ²	U32
18452	0x4814	2	Ph-Ph Voltage : U12	V 10 ²	U32

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
19840	0x4D80	Info	90	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data type
19840	0x4D80	1	Load status : 0 : Disabled 1 : Enabled	-	U8
19841	0x4D81	2	Total Hour meter	s	U32
19843	0x4D83	2	Total Positive active Energy : Ea+	kWh	U32
19845	0x4D85	1	Total Residual positive active Energy : rEa+	Wh 10 ¹	U16
19846	0x4D86	2	Total Negative active Energy : Ea-	kWh	U32
19848	0x4D88	1	Total Residual negative active Energy : rEa-	Wh 10 ¹	U16
19849	0x4D89	2	Total Positive reactive Energy : Er+	varh 10 ³	U32
19851	0x4D8B	1	Total Residual positive reactive Energy : rEr+	varh 10 ¹	U16
19852	0x4D8C	2	Total Negative reactive Energy : Er-	varh 10 ³	U32
19854	0x4D8E	1	Total Residual negative reactive Energy : rEr-	varh 10 ¹	U16
19855	0x4D8F	2	Total Apparent Energy : Eap	kVAh	U32

STEP 2 : Fill the addresses of these values in the “Communication” tile of Easy Config software:

Easy Config parameters

- Profibus address
- Modbus Register
System Phase-Neutral Voltage= 18436
System Current= 18440
Total Positive Active Energy= 19483
- Number of bytes = Size of the register in bytes (Modbus Words x 2)= 4

The screenshot shows the 'EASY CONFIG TOOL V2.7' interface. The 'Communication' tile is selected. Under 'Slave Modbus Configuration', the 'Profibus Configuration' section is expanded. The 'Address' is set to 126. The 'Short module Profibus configuration' section shows the following settings:

Variable index	1	2	3	4
Modbus Register	18436	18440	19483	0
Number of bytes	4	4	4	0

The 'Extended module Profibus configuration' section shows 16 variables, all with a Modbus Register of 0 and a Number of bytes of 0.

To configure Module 18, the approach is similar with 16 input variables rather than 4. Input variables 1 to 4 are the same as input variables 1 to 4 of Module 17.

2.3. PROFIBUS address

PROFIBUS address is set from 1 to 126, default value is 126. The address can be chosen in Easy Config software as seen in the previous paragraph. It can be also configured from the display in Parameters menu (see instruction manual for more information).

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