

USER'S MANUAL
Rev. 09/2018

REVO TC
TU-RS485-PNTOTCMXX
SERIAL COMMUNICATION
MANUAL
PROFINET

00003



Sommario

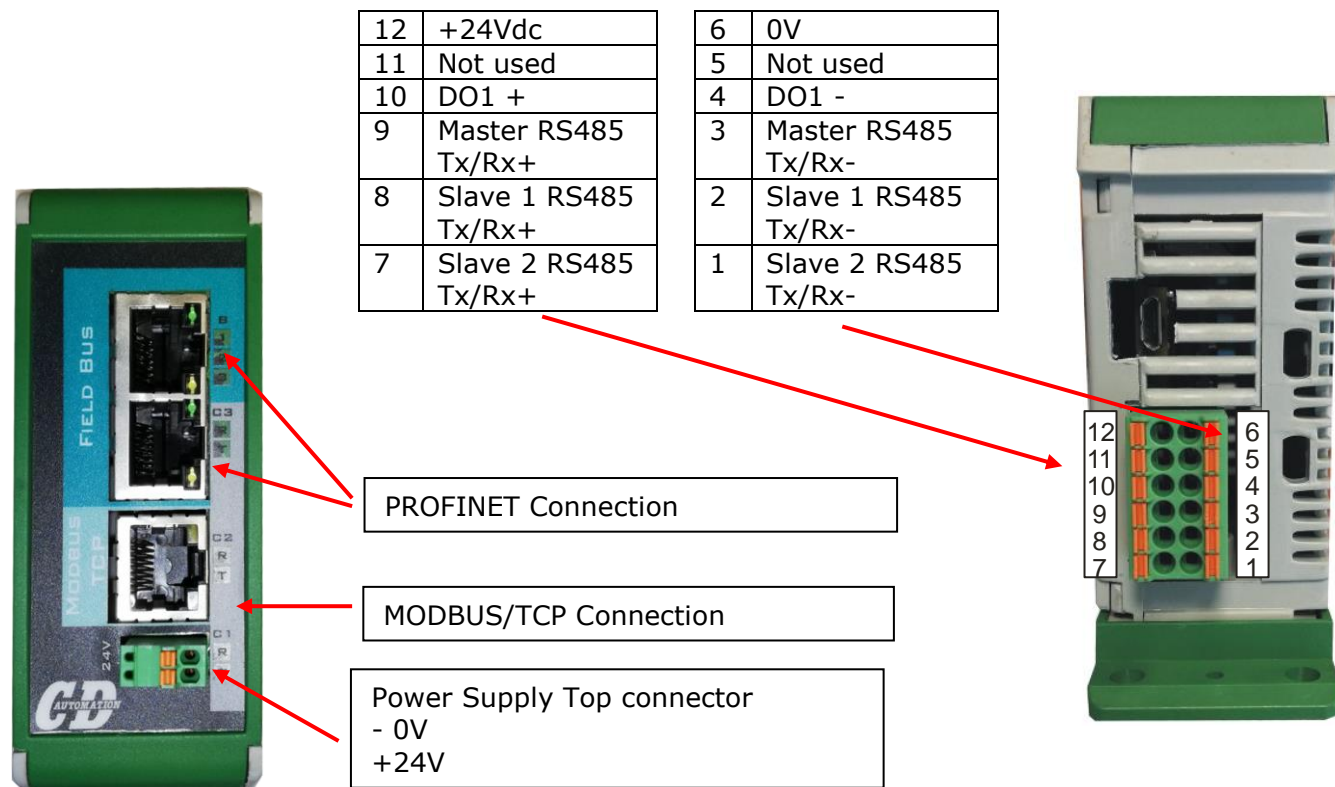
1 FIELDBUS communication	2
1.1 PROFINET	2
1.1.1.1 Connection PN104 / PN108	2
1.1.1.2 Status Led	2
1.1.1.3 Digital Output	3
1.1.1.4 Connection with Revo TC	4
1.1.1.5 Revo TC Addressing	4
1.1.2 PLC CONFIGURATION	5
2 Data Exchange Area	7
2.1 Read area (E area)	7
2.1.1 STATUS TABLE	12
2.2 Write area (A area)	13
3 Indirect Actions function	19
3.1 How Write a value	20
3.2 How Read a value	20
4 Who to set right configuration	21

1 FIELDBUS communication

1.1 PROFINET

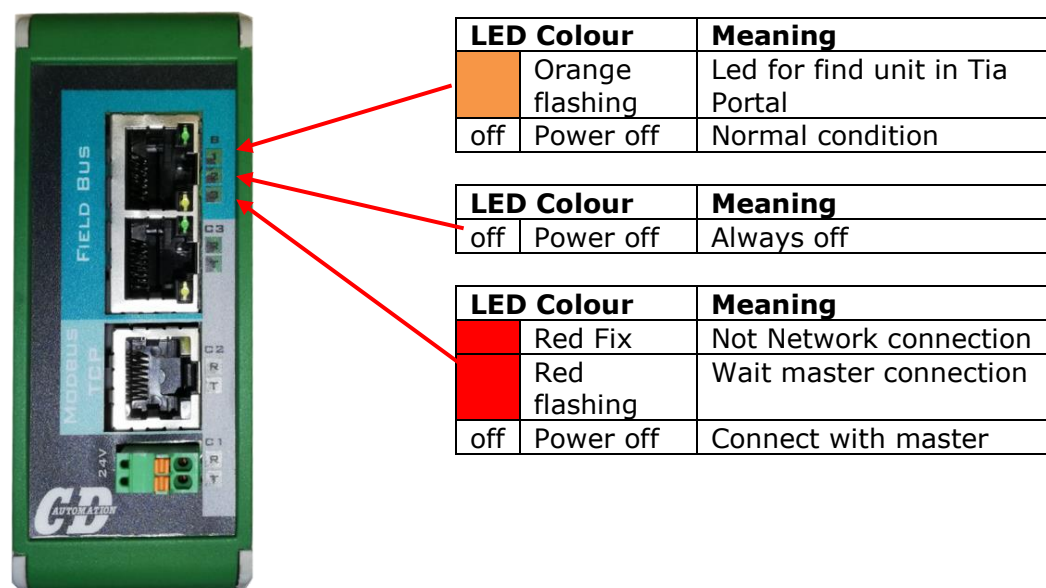
The thyristor unit have a data exchange via PROFINET Siemens protocol.

1.1.1.1 Connection PN104 / PN108



Power supply can be connected from top connector or side connector
 If a communication error from RTC occur the output become high

1.1.1.2 Status Led

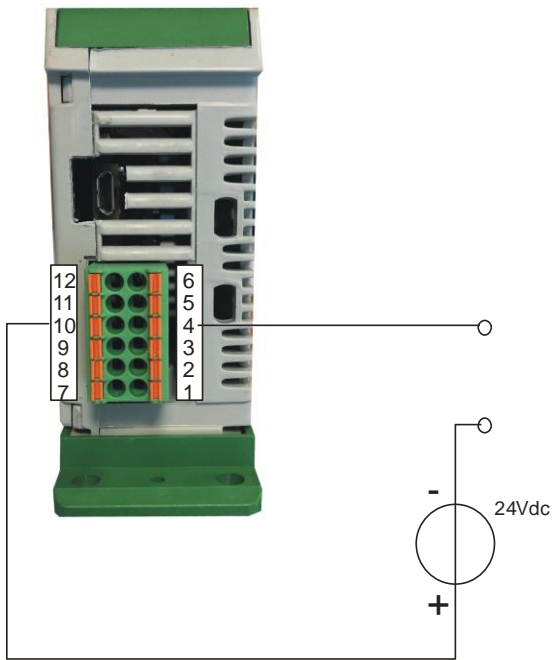


1.1.1.3 Digital Output

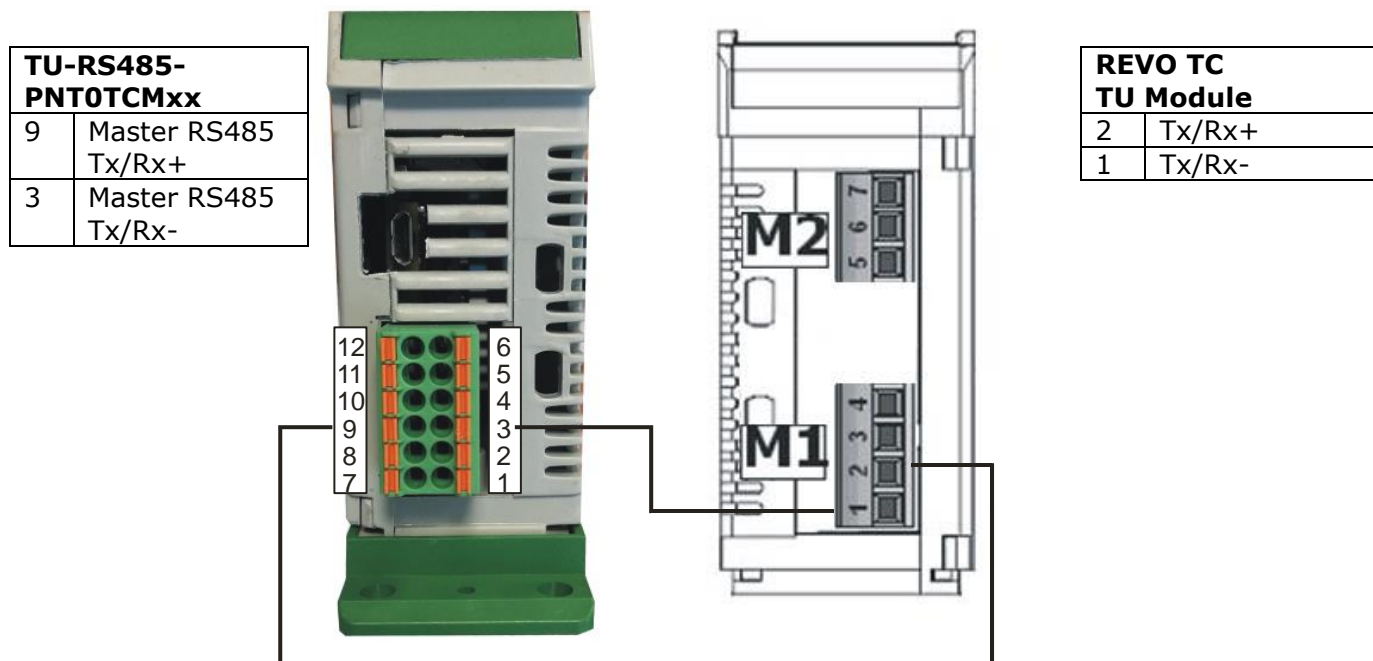
The digital output, is an open collector output, used to indicate the communication error status. This option is available from firm Ver 2.24.000 and configuration Ver 1.2

Voltage supply :24Vdc
 Max current :150mAM

Output	Status
Open	RS485 Communication ok
Closed	at least one instrument is in communication error



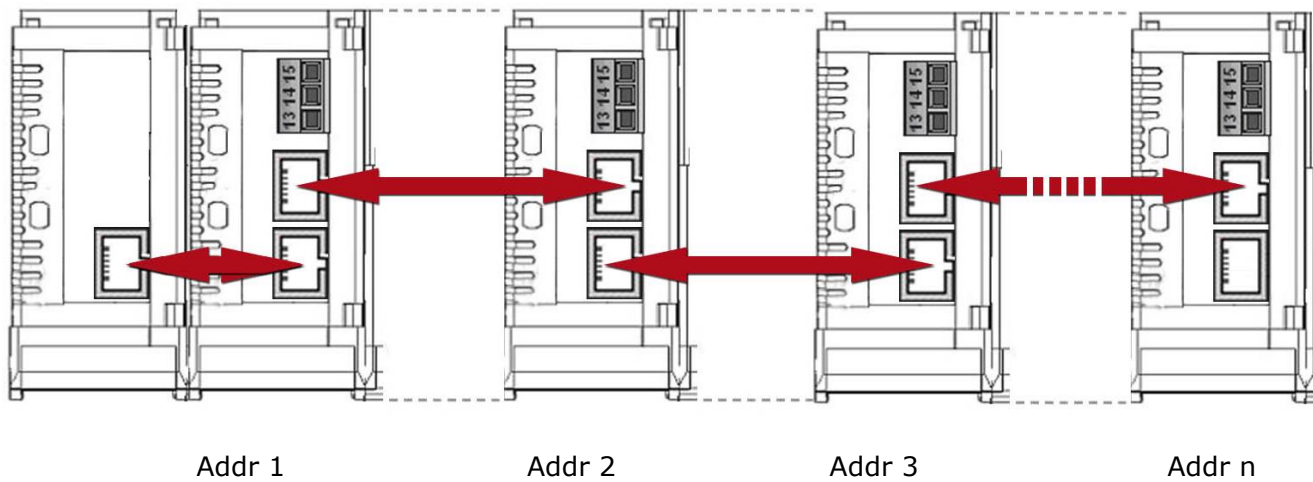
1.1.1.4 Connection with Revo TC



1.1.1.5 Revo TC Addressing

The Revo TC addressing on a Revo TC system is like follow

TU MODULE



The first Revo TC is address 1 the second address 2 and so on

1.1.2 PLC Configuration

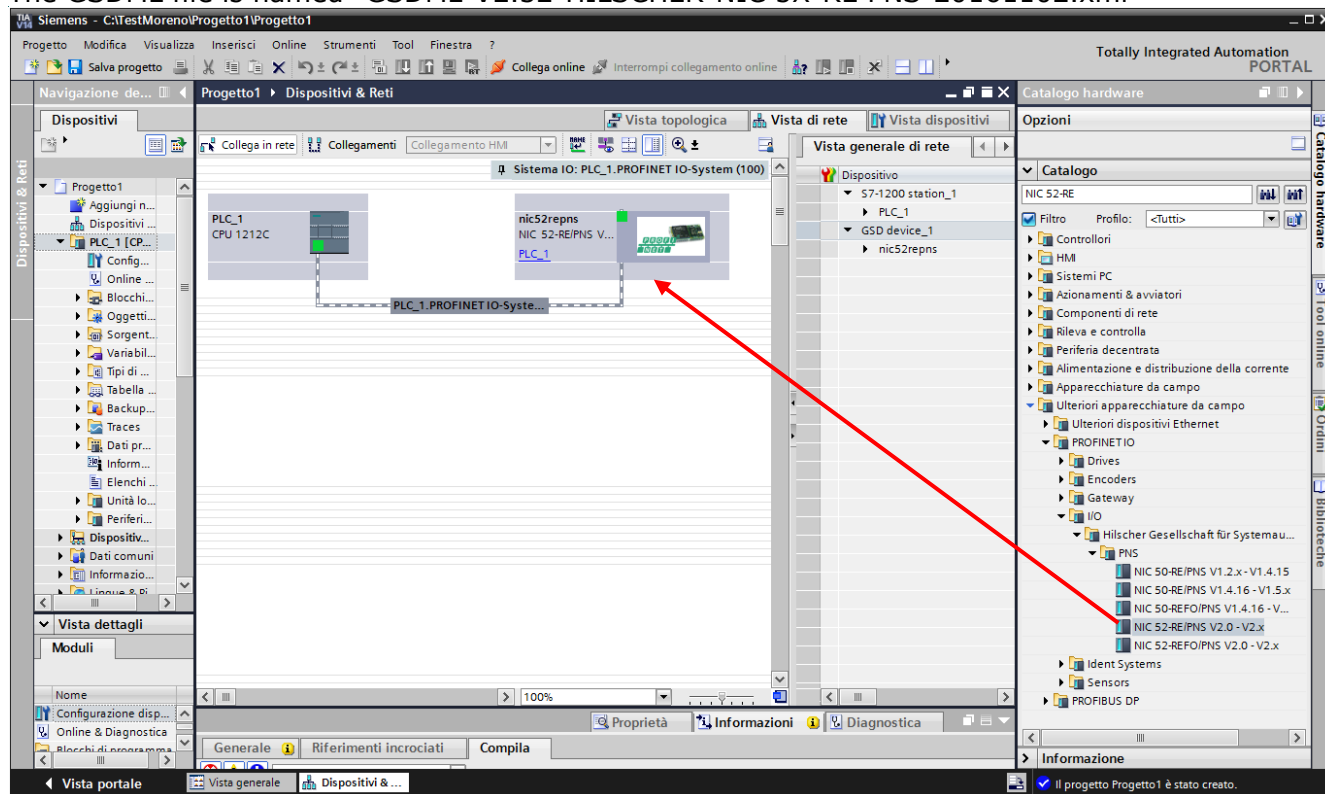
With PROFINET connection is possible read value in cyclic mode.

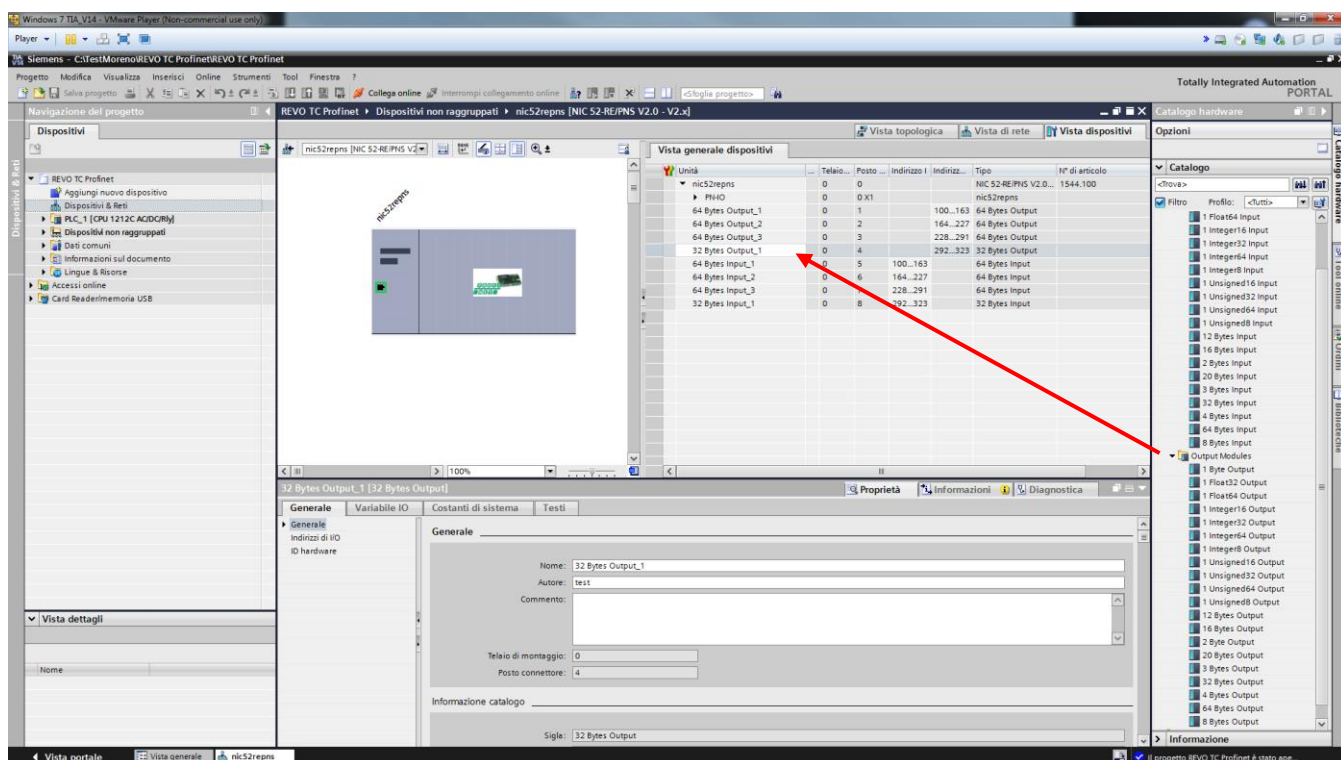
To do it you need use de GSDML plc configuration file that describe the product, and install in PLC configuration software environment.

If GSD file is not installed, please install it

If installed or after installation will be present (NIC 52-RE/PNS)

The GSDML file is named "GSDML-V2.32-HILSCHER-NIC 5X-RE PNS-20161102.xml"





NOTE:
 The module must have the right sequence

Vista generale dispositivi							
Unità	Telaio...	Posto ...	Indirizzo I	Indirizz...	Tipo	N° di articolo	
▼ nic52reps	0	0			NIC 52-RE/PNS V2.0...	1544.100	
▶ PN-IO	0	0 X1			nic52reps		
64 Bytes Output_1	0	1		100...163	64 Bytes Output		
64 Bytes Output_2	0	2		164...227	64 Bytes Output		
64 Bytes Output_3	0	3		228...291	64 Bytes Output		
32 Bytes Output_1	0	4		292...323	32 Bytes Output		
64 Bytes Input_1	0	5	100...163		64 Bytes Input		
64 Bytes Input_2	0	6	164...227		64 Bytes Input		
64 Bytes Input_3	0	7	228...291		64 Bytes Input		
32 Bytes Input_1	0	8	292...323		32 Bytes Input		

Is important the position, and the:

- Position 5 must be 64 Bytes Out
 - Position 6 must be 64 Bytes Out
 - Position 7 must be 64 Bytes Out
 - Position 8 must be 32 Bytes Out
-
- Position 5 must be 64 Bytes IN
 - Position 6 must be 64 Bytes IN
 - Position 7 must be 64 Bytes IN
 - Position 8 must be 32 Bytes IN

2 Data Exchange Area

2.1 Read area (E area)

Columns

Byte Bus Offset:	The number of bytes from the "0" address to the parameter start address
Word Bus Offset:	The number of "Words" offset from the "0" address.
Parameter Number:	The Modbus parameter number Useful for parameter description
Min:	the minimum actual value of the parameter.
Max:	the maximum actual value of the parameter.
Min UM:	The minimum value translated to its unit of measurement
Max UM:	The maximum value translated to its unit of measurement
UM:	Unit of measurement

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description
Byte Buss Offset	Word Bus Offset						
0	0			0	65635		Acyclic – Transmission Number
2	1						Acyclic – Error Code
4	2			3 or 6			Acyclic –Function code executed
6	3			0	65635		Acyclic – Readed or Writed value
8	4						Internal use
10	5	505	505	Inp Low	Inp High	o	ID 1 - PV
12	6	100	100	SP Low	SP High	o	ID 1 - SP
14	7	507	507	0 (0,0)	1000 (100,0)	%	ID 1 - PW H
16	8	508	508	0 (0,0)	1000 (100,0)	%	ID 1 - PW C
18	9	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 1 - Current
20	10	522	522	-	-	-	ID 1 - Status
22	11	-	-	-	-	-	ID 1 - Free
24	12	505	505	Inp Low	Inp High	o	ID 2 - PV
26	13	100	100	SP Low	SP High	o	ID 2 - SP
28	14	507	507	0 (0,0)	1000 (100,0)	%	ID 2 - PW H
30	15	508	508	0 (0,0)	1000 (100,0)	%	ID 2 - PW C
32	16	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 2 - Current
34	17	522	522	-	-	-	ID 2 - Status
36	18	-	-	-	-	-	ID 2 - Free
38	19	505	505	Inp Low	Inp High	o	ID 3 - PV
40	20	100	100	SP Low	SP High	o	ID 3 - SP
42	21	507	507	0 (0,0)	1000 (100,0)	%	ID 3 - PW H
44	22	508	508	0 (0,0)	1000 (100,0)	%	ID 3 - PW C
46	23	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 3 - Current
48	24	522	522	-	-	-	ID 3 - Status
50	25	-	-	-	-	-	ID 3 - Free
52	26	505	505	Inp Low	Inp High	o	ID 4 - PV
54	27	100	100	SP Low	SP High	o	ID 4 - SP

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description
Byte Buss Offset	Word Bus Offset						
56	28	507	507	0 (0,0)	1000 (100,0)	%	ID 4 - PW H
58	29	508	508	0 (0,0)	1000 (100,0)	%	ID 4 - PW C
60	30	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 4 - Current
62	31	522	522	-	-	-	ID 4 - Status
64	32	-	-	-	-	-	ID 4 - Free
66	33	505	505	Inp Low	Inp High	°	ID 5 - PV
68	34	100	100	SP Low	SP High	°	ID 5 - SP
70	35	507	507	0 (0,0)	1000 (100,0)	%	ID 5 - PW H
72	36	508	508	0 (0,0)	1000 (100,0)	%	ID 5 - PW C
74	37	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 5 - Current
76	38	522	522	-	-	-	ID 5 - Status
78	39	-	-	-	-	-	ID 5 - Free
80	40	505	505	Inp Low	Inp High	°	ID 6 - PV
82	41	100	100	SP Low	SP High	°	ID 6 - SP
84	42	507	507	0 (0,0)	1000 (100,0)	%	ID 6 - PW H
86	43	508	508	0 (0,0)	1000 (100,0)	%	ID 6 - PW C
88	44	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 6 - Current
90	45	522	522	-	-	-	ID 6 - Status
92	46	-	-	-	-	-	ID 6 - Free
94	47	505	505	Inp Low	Inp High	°	ID 7 - PV
96	48	100	100	SP Low	SP High	°	ID 7 - SP

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description
Byte Buss Offset	Word Bus Offset						
98	49	507	507	0 (0,0)	1000 (100,0)	%	ID 7 - PW H
100	50	508	508	0 (0,0)	1000 (100,0)	%	ID 7 - PW C
102	51	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 7 - Current
104	52	522	522	-	-	-	ID 7 - Status
106	53	-	-	-	-	-	ID 7 - Free
108	54	505	505	Inp Low	Inp High	o	ID 8 - PV
110	55	100	100	SP Low	SP High	o	ID 8 - SP
112	56	507	507	0 (0,0)	1000 (100,0)	%	ID 8 - PW H
114	57	508	508	0 (0,0)	1000 (100,0)	%	ID 8 - PW C
116	58	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 8 - Current
118	59	522	522	-	-	-	ID 8 - Status
120	60	-	-	-	-	-	ID 8 - Free
122	61	505	505	Inp Low	Inp High	o	ID 9 - PV
124	62	100	100	SP Low	SP High	o	ID 9 - SP
126	63	507	507	0 (0,0)	1000 (100,0)	%	ID 9 - PW H
128	64	508	508	0 (0,0)	1000 (100,0)	%	ID 9 - PW C
130	65	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 9 - Current
132	66	522	522	-	-	-	ID 9 - Status
134	67	-	-	-	-	-	ID 8 - Free
136	68	505	505	Inp Low	Inp High	o	ID 10 - PV
138	69	100	100	SP Low	SP High	o	ID 10 - SP
140	70	507	507	0 (0,0)	1000 (100,0)	%	ID 10 - PW H
142	71	508	508	0 (0,0)	1000 (100,0)	%	ID 10 - PW C
144	72	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 10 - Current
146	73	522	522	-	-	-	ID 10 - Status
148	74	-	-	-	-	-	ID 10 - Free
150	75	505	505	Inp Low	Inp High	o	ID 11 - PV

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description
Byte Buss Offset	Word Bus Offset						
152	76	100	100	SP Low	SP High	o	ID 11 - SP
154	77	507	507	0 (0,0)	1000 (100,0)	%	ID 11 - PW H
156	78	508	508	0 (0,0)	1000 (100,0)	%	ID 11 - PW C
158	79	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 11 - Current
160	80	522	522	-	-	-	ID 11 - Status
162	81	-	-	-	-	-	ID 11 - Free
164	82	505	505	Inp Low	Inp High	o	ID 12 - PV
166	83	100	100	SP Low	SP High	o	ID 12 - SP
168	84	507	507	0 (0,0)	1000 (100,0)	%	ID 12 - PW H
170	85	508	508	0 (0,0)	1000 (100,0)	%	ID 12 - PW C
172	86	509	509	0 (0,0)	CT Size (xxx,x)	A	ID 12 - Current
174	87	522	522	-	-	-	ID 12 - Status
176	88	-	-	-	-	-	ID 12 - Free
178	89						
180	90						
182	91						
184	92						
186	93						
188	94						
190	95						
192	96						
194	97						
196	98						
198	99						
200	100						
202	101						
204	102						
206	103						
208	104						

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description
Byte Buss Offset	Word Bus Offset						
210	105						
212	106						
214	107						
216	108						
218	109						
220	110						
222	111						
224	112						

2.1.1 Status Table

Bit	Meaning	1	0
0	Pretune	Active	Not Active
1	Self Tune	Active	Not Active
2	Auto/Manual	Manual	Auto
3	On/Off	OFF	ON
4	sts out1	on	off
5	sts out2	on	off
6	sts out3	on	off
7	sts out4	on	off
8	Alm1	Active	Not Active
9	Alm2	Active	Not Active
10	Alm3	Active	Not Active
11	HB alarm	Active	Not Active
12	Alarm Leakage	Active	Not Active
13	Loop Alarm	Active	Not Active
14	Sensor Break	Active	Not Active
15	Over Range	Active	Not Active

2.2 Write area (A area)

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description			
Byte Buss Offset	Word Bus Offset									
0	0			0	65635		Transmission number			
2	1			-	-		Not used			
4	2			1	1		Address to query (Fixed 1)			
6	3			3 or 6			Function to use 3 for read a value 6 for write a value			
8	4			0	65635		Parameter number to read or write			
10	5			0	65635		If function 6 is the value to write			
12	6	522	522	SP Low	SP High		ID1 - SP			
14	7	506	506	0 -100	100 100		ID1 - P003 Pw			
16	8						ID1 – Command			
							Bit	Meaning	0	1
							0	On/Off	On	Off
							1	Pretune	Not active	Active
2	Auto/Manual	Manual	Auto							
18	9	522	522				ID2 - SP			
20	10	506	506				ID2 - P003 Pw			
22	11						ID2 – Command			
							Bit	Meaning	0	1
							0	On/Off	On	Off
							1	Pretune	Not active	Active
2	Auto/Manual	Manual	Auto							
24	12	522	522				ID3 - SP			
26	13	506	506				ID3 - P003 Pw			
28	14						ID3 – Command			
							Bit	Meaning	0	1
							0	On/Off	On	Off
							1	Pretune	Not active	Active
2	Auto/Manual	Manual	Auto							
30	15	522	522				ID4 - SP			
32	16	506	506				ID4 - P003 Pw			

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description																
Byte Buss Offset	Word Bus Offset																						
34	17						ID4 – Command <table border="1"> <thead> <tr> <th>Bit</th> <th>Meaning</th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On/Off</td> <td>On</td> <td>Off</td> </tr> <tr> <td>1</td> <td>Pretune</td> <td>Not active</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Auto/Manual</td> <td>Manual</td> <td>Auto</td> </tr> </tbody> </table>	Bit	Meaning	0	1	0	On/Off	On	Off	1	Pretune	Not active	Active	2	Auto/Manual	Manual	Auto
Bit	Meaning	0	1																				
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1	Pretune	Not active	Active																				
2	Auto/Manual	Manual	Auto																				
36	18	522	522				ID5 - SP																
38	19	506	506				ID5 - P003 Pw																
40	20						ID5 – Command <table border="1"> <thead> <tr> <th>Bit</th> <th>Meaning</th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On/Off</td> <td>On</td> <td>Off</td> </tr> <tr> <td>1</td> <td>Pretune</td> <td>Not active</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Auto/Manual</td> <td>Manual</td> <td>Auto</td> </tr> </tbody> </table>	Bit	Meaning	0	1	0	On/Off	On	Off	1	Pretune	Not active	Active	2	Auto/Manual	Manual	Auto
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42	21	522	522				ID6 - SP																
44	22	506	506				ID6 - P003 Pw																
46	23						ID6 – Command <table border="1"> <thead> <tr> <th>Bit</th> <th>Meaning</th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On/Off</td> <td>On</td> <td>Off</td> </tr> <tr> <td>1</td> <td>Pretune</td> <td>Not active</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Auto/Manual</td> <td>Manual</td> <td>Auto</td> </tr> </tbody> </table>	Bit	Meaning	0	1	0	On/Off	On	Off	1	Pretune	Not active	Active	2	Auto/Manual	Manual	Auto
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48	24	522	522				ID7 - SP																
50	25	506	506				ID7 - P003 Pw																
52	26						ID7 – Command <table border="1"> <thead> <tr> <th>Bit</th> <th>Meaning</th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On/Off</td> <td>On</td> <td>Off</td> </tr> <tr> <td>1</td> <td>Pretune</td> <td>Not active</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Auto/Manual</td> <td>Manual</td> <td>Auto</td> </tr> </tbody> </table>	Bit	Meaning	0	1	0	On/Off	On	Off	1	Pretune	Not active	Active	2	Auto/Manual	Manual	Auto
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54	27	522	522				ID8 - SP																
56	28	506	506				ID8 - P003 Pw																
58	29						ID8 – Command <table border="1"> <thead> <tr> <th>Bit</th> <th>Meaning</th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On/Off</td> <td>On</td> <td>Off</td> </tr> <tr> <td>1</td> <td>Pretune</td> <td>Not active</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Auto/Manual</td> <td>Manual</td> <td>Auto</td> </tr> </tbody> </table>	Bit	Meaning	0	1	0	On/Off	On	Off	1	Pretune	Not active	Active	2	Auto/Manual	Manual	Auto
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2	Auto/Manual	Manual	Auto																				
60	30	522	522				ID9 - SP																
62	31	506	506				ID9 - P003 Pw																

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description																
Byte Buss Offset	Word Bus Offset																						
64	32						ID9 – Command <table border="1"> <thead> <tr> <th>Bit</th> <th>Meaning</th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On/Off</td> <td>On</td> <td>Off</td> </tr> <tr> <td>1</td> <td>Pretune</td> <td>Not active</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Auto/Manual</td> <td>Manual</td> <td>Auto</td> </tr> </tbody> </table>	Bit	Meaning	0	1	0	On/Off	On	Off	1	Pretune	Not active	Active	2	Auto/Manual	Manual	Auto
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66	33	522	522				ID10 - SP																
68	34	506	506				ID10 - P003 Pw																
70	35						ID10 – Command <table border="1"> <thead> <tr> <th>Bit</th> <th>Meaning</th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On/Off</td> <td>On</td> <td>Off</td> </tr> <tr> <td>1</td> <td>Pretune</td> <td>Not active</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Auto/Manual</td> <td>Manual</td> <td>Auto</td> </tr> </tbody> </table>	Bit	Meaning	0	1	0	On/Off	On	Off	1	Pretune	Not active	Active	2	Auto/Manual	Manual	Auto
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72	36	522	522				ID11 - SP																
74	37	506	506				ID11 - P003 Pw																
76	38						ID11 – Command <table border="1"> <thead> <tr> <th>Bit</th> <th>Meaning</th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On/Off</td> <td>On</td> <td>Off</td> </tr> <tr> <td>1</td> <td>Pretune</td> <td>Not active</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Auto/Manual</td> <td>Manual</td> <td>Auto</td> </tr> </tbody> </table>	Bit	Meaning	0	1	0	On/Off	On	Off	1	Pretune	Not active	Active	2	Auto/Manual	Manual	Auto
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1	Pretune	Not active	Active																				
2	Auto/Manual	Manual	Auto																				
78	39	522	522				ID12 - SP																
80	40	506	506				ID12 - P003 Pw																
82	41						ID12 – Command <table border="1"> <thead> <tr> <th>Bit</th> <th>Meaning</th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On/Off</td> <td>On</td> <td>Off</td> </tr> <tr> <td>1</td> <td>Pretune</td> <td>Not active</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Auto/Manual</td> <td>Manual</td> <td>Auto</td> </tr> </tbody> </table>	Bit	Meaning	0	1	0	On/Off	On	Off	1	Pretune	Not active	Active	2	Auto/Manual	Manual	Auto
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92	46																						
94	47																						
96	48																						
98	49																						
100	50																						
102	51																						

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description
Byte Buss Offset	Word Bus Offset						
104	52						
106	53						
108	54						
110	55						
112	56						
114	57						
116	58						
118	59						
120	60						
122	61						
124	62						
126	63						
128	64						
130	65						
132	66						
134	67						
136	68						
138	69						
140	70						
142	71						
144	72						
146	73						
148	74						
150	75						
152	76						
154	77						
156	78						
158	79						
160	80						
162	81						

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description
Byte Buss Offset	Word Bus Offset						
164	82						
166	83						
168	84						
170	85						
172	86						
174	87						
176	88						
178	89						
180	90						
182	91						
184	92						
186	93						
188	94						
190	95						
192	96						
194	97						
196	98						
198	99						
200	100						
202	101						
204	102						
206	103						
208	104						
210	105						
212	106						
214	107						
216	108						
218	109						
220	110						
222	111						

PROFIBUS PROFINET		Parameter Number	PG	Min	Max	UM	Description
Byte Buss Offset	Word Bus Offset						
224	112						

3 Indirect Actions function

This function is used to read or write a value that is not in programmed in read or write area. This function are placed in write area from offset byte 0 to offset byte 10

PROFIBUS PROFINET		Min	Max	Min UM	Max UM	UM	Description
Byte Buss Offset	Word Bus Offset						
0	0	0	65635	0	65635		Acyclic – Transmission number
2	1	-	-	-	-		Not used
4	2	1	128	1	128		Acyclic – Address to query Fixed 1
6	3	3 or 6					Function to use 3 for read a value 6 for write a value
8	4	0	65635	0	65635		Parameter number to read or write
10	5	0	65635	0	65635		If function 6 set, is the value to write

And the answer are in read area from

PROFIBUS PROFINET		Min	Max	Min UM	Max UM	UM	Description
Byte Buss Offset	Word Bus Offset						
0	0	0	65635	0	65635		Acyclic – Transmission Number
2	1	0	65635	0	65635		Acyclic – Error Code
4	2	3 or 6					Acyclic –Function code executed 3 read action executed 6 write action executed
6	3	0	65635	0	65635		Acyclic – Readed or Writed value

3.1 How Write a value

To write a value need

- 1) Set Byte offset 2 fixed to 0
- 2) Set Byte offset 4 (Address) fixed to 1
- 3) Set Byte offset 6 (Function) to value 6
- 4) Set Byte offset 8 (Par Number) number of parameters in column "Parameter Number"
- 5) Set Byte offset 10 (Value to write)
- 6) To send the value increase the offset 0 (transmission number)

3.2 How Read a value

To Read a value need

- 1) Set Byte offset 2 fixed to 0
- 2) Set Byte offset 4 (Address) fixed to 1
- 3) Set Byte offset 6 (Function) to value 3
- 4) Set Byte offset 8 (Par Number) number of parameters in column "Parameter Number"
- 5) To send the value increase the offset 0 (transmission number)

4 Who to set right configuration

The field bus module can be order configured with right number of zone or empty

	1	2		3	4	5	6	7		8	9	10	11	12	13	14	15	16
ORDERING CODE	T	U	-	R	S	4	8	5	-	-	-	-	-	-	-	-	-	-

Field Bus or Communication	8	9	10	
description	code			note
N° 1 Modbus TCP + N° 1 Modbus RTU slave	T	C	P	
N° 1 ProfiNet PN + N° 1 Modbus RTU slave	P	N	T	
N° 1 Profibus DP + N° 1 Modbus RTU slave	P	D	P	
N° 1 Ethernet IP + N° 1 Modbus RTU slave	E	I	P	

Secondary Communication Port	11	
description	code	note
None	0	
Modbus TCP	1	1

Configuration	12	13	14	
description	code			note
Revo TC1, TC2, TC3 and TCM	T	C	M	

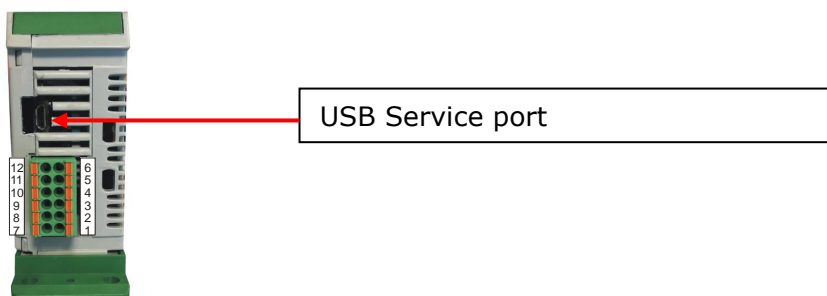
N° zones	15	16	
description	code	code	note
Not configured	0	0	
1 zone	0	1	
2 zones	0	2	
3 zones	0	3	
4 zones	0	4	
5 zones	0	5	
6 zones	0	6	
7 zones	0	7	
8 zones	0	8	
9 zones	0	9	
10 zones	1	0	
11 zones	1	1	
12 zones	1	2	

Note (1): Not available with Modbus TCP Field Bus Communication (T-C-P on digit 8-9-10)

To set the right zone number is enough connect the usb cable to a PC and copy the right configuration file.

The procedure is:

- 1) connect a PC with a micro USB and connect to service port



- 2) Will appear a USB disk that contain the actual configuration or empty if not configured



- 3) copy and paste the right configuration file you can download the file from web site <https://www.cdautomation.com/it/products/cd-automation-marchio/>

- 4) when the file copy is finish remove USB cable

- 5) switch off and switch on the TU-RS485-TCM module communication board