SERIAL COMMUNICATION - IPTE

Protocol: **MODBUS RTU;**

Baudrate: **1.200 to 57.600 bps;**

Data bits: **8;**

Parity: **None;**

Stop bits: **1;**

ADDRESS DNP3	FAIXA DE READING	BITS INDEX	STATE	DESCRIPTION POINT NAME	WRITE READING	SCALE
1	1 – 999	-	-	Initial TAP position;	W / R	W / R
2	1 – 999	-	-	Final TAP Position;	W / R	-
3	1 – 999	-	-	Resistive Step;	W / R	-
4	0 – 1	-	-	Register – How to indicate the TAP position on the IPTE Display:		-
		-	0	Numeric;	W / R	-
		-	1	Alphanumeric;	W / R	-
5	0 – 1	-	-	Register – Initialization mode of the Potentiometric crown reading:		-
		-	0	Indicates position from 0 Ohms;	W / R	-
		-	1	Indicates the position from the initial resistance;	W / R	-
6	0 – 4	-		Register – Analog output type		-
		-	0	When 0, defines 0 to 1 mA analog output;	W / R	-
		-	1	When 1, defines 0 to 5 mA analog output;	W / R	-
		-	2	When 2, it defines Analog output from 0 to 10 mA;	W / R	-
		-	3	When 3, it defines 0 to 20 mA analog output;	W / R	-
		-	4	When 4, it defines 4 to 20 mA analog output;	W / R	-

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ADDRESS DNP3	FAIXA DE READING	BITS INDEX	STATE	DESCRIPTION POINT NAME	WRITE READING	SCALE
7	-	-	-	Register – Commands.		-
		0	1	Reset of minimum position reached;	W	-
		1	1	Reset of maximum position reached;	W	-
		2	1	Equipment reset;	W	-
8	-50 a 50	-	-	TAP position;	R	-1000
9	-50 a 50	-	-	Minimum TAP Position Reached;	R	-1000
10	- 50 a 50	-	-	Maximum TAP Position Reached.	R	-1000
11	- 50 a 50	-	-	Previous TAP position;	R	-100
12	0 - 240	-	-	Time between deposition change and signaling on the equipment;	W / R	1:1
13	0 - 240	-	-	Remaining time for position change;	W / R	1:1
16	-	-	-	Register - Falha;		-
		0	1	Crown failure;	R	-
		1	1	Maximum TAP failure;	R	-
		2	1	Minimum TAP failure;	R	-
56	-	-	-	Register – Communication Protocol		-
		-	0	DNP 3.0;	R	1:1
			1	Modbus RTU;	R	1:1
57	0 - 2	-	-	Register – Paridade.		-
		-	0	Without parity;	R	1:1
			1	Last bit to be transmitted will be 1;	R	1:1
			2	Last bit to be transmitted will be 0;	R	1:1

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ADDRESS DNP3	READING RANGE	BITS INDEX	STATE	DESCRIPTION POINT NAME	WRITE READING	SCALE
58	0 - 1	-	-	Register Communication Protocol;	-	-
		0	1	DNP 3;	R	-
		1	1	Modbus RTU;	R	-
59	1 - 254	-	-	Serial Network Address.	R	1:1
60	0 - 1	-	-	Register – Protection against changing parameters:	-	-
		-	0	Protection disabled;	W / R	-
		-	1	Protection enabled;	W / R	-
61	-	-	-	Password reminder;		1:1
62	0x00	-	-	Serial Number – MSB;	R	1:1
63	0x98967F	-	-	Serial Number – LSB;	R	1:1
64	1 – 31	-	-	Calibration Day;	R	1:1
65	1 – 12	-	-	Calibration Month;	R	1:1
66	19 – 99	-	-	Calibration Year;	R	1:1
67	71	-	-	Equipment Model;	R	1:1
68	0x00 – 0xFFFF	-	-	Equipment version;	R	FF:F1:1F