

cFos YTL DTS353 Modbus Registers:

COM parameters: 9600 baud, 8 data bits, even parity, one stop bit

Modbus ID is 01 at default, will be set to 101 by cFos Power Brain. Possible baudrates: 9600 (recommended), 4800, 2400, 1200 bps

Read operation:

Meter ID (default)	Function Code	Register Address	Contents	Register No.	Read/Write	Length	Data Format
	3	0	Serial number	1	Read	4	
1	3	2	Meter ID	2	Read	2	
1	3	3	Baud Rate	3	Read	2	
1	3	4	Software Version	4	Read	4	float
1	3	6	Hardware Version	5	Read	4	float
1	3	9	S0 output rate	7	Read	4	float
1	3	000D	Cycle time	10	Read	2	
1	3	000E	L1 Voltage	11	Read	4	float
1	3	10	L2 Voltage	12	Read	4	float
1	3	12	L3 Voltage	13	Read	4	float
1	3	14	Grid Frequency	14	Read	4	float
1	3	16	L1 Current	15	Read	4	float
1	3	18	L2 Current	16	Read	4	float
1	3	001A	L3 Current	17	Read	4	float
1	3	001C	Total Active Power	18	Read	4	float
1	3	001E	L1 Active Power	19	Read	4	float
1	3	20	L2 Active Power	20	Read	4	float
1	3	22	L3 Active Power	21	Read	4	float
1	3	24	Total reactive power	22	Read	4	float
1	3	26	L1 reactive power	23	Read	4	float
1	3	28	L2 reactive power	24	Read	4	float
1	3	002A	L3 reactive power	25	Read	4	float
1	3	002C	Total Apparent Power	26	Read	4	float
1	3	002E	L1 Apparent Power	27	Read	4	float
1	3	30	L2 Apparent Power	28	Read	4	float
1	3	32	L3 Apparent Power	29	Read	4	float
1	3	34	Total Power Factor	30	Read	4	float
1	3	36	Power Factor	31	Read	4	float
1	3	38	Power Factor	32	Read	4	float
1	3	003A	Power Factor	33	Read	4	float
1	3	100	Total Active Energy	35	Read	4	float
1	3	102	L1 Total Active Energy	36	Read	4	float
1	3	104	L2 Total Active Energy	37	Read	4	float
1	3	106	L3 Total Active Energy	38	Read	4	float
1	3	108	Forward Active Energy	39	Read	4	float
1	3	010A	L1 Forward Active Energy	40	Read	4	float
1	3	010C	L2 Forward Active Energy	41	Read	4	float
1	3	010E	L3 Forward Active Energy	42	Read	4	float
1	3	110	Reverse Active Energy	43	Read	4	float
1	3	112	L1 Reverse Active Energy	44	Read	4	float
1	3	114	L2 Reverse Active Energy	45	Read	4	float
1	3	116	L3 Reverse Active Energy	46	Read	4	float
1	3	118	Total Reactive Energy	47	Read	4	float
1	3	011A	L1 Reactive Energy	48	Read	4	float
1	3	011C	L2 Reactive Energy	49	Read	4	float
1	3	011E	L3 Reactive Energy	50	Read	4	float
1	3	120	Forward Reactive Energy	51	Read	4	float
1	3	122	L1 Forward Reactive Energy	52	Read	4	float
1	3	124	L2 Forward Reactive Energy	53	Read	4	float
1	3	126	L3 Forward Reactive Energy	54	Read	4	float
1	3	128	Reverse Reactive Energy	55	Read	4	float
1	3	012A	L1 Reverse Reactive Energy	56	Read	4	float
1	3	012C	L2 Reverse Reactive Energy	57	Read	4	float
1	3	012E	L3 Reverse Reactive Energy	58	Read	4	float
1	3	130	T1 Total Active Energy	59	Read	4	float
1	3	132	T1 Forward Active Energy	60	Read	4	float
1	3	134	T1 Reverse Active Energy	61	Read	4	float
1	3	136	T1 Reverse Active Energy	62	Read	4	float
1	3	138	T1 Forward Reactive Energy	63	Read	4	float
1	3	013A	T1 Reverse Reactive Energy	64	Read	4	float
1	3	013C	T2 Total Active Energy	65	Read	4	float
1	3	013E	T2 Forward Active Energy	66	Read	4	float
1	3	140	T2 Reverse Active Energy	67	Read	4	float
1	3	142	T2 Total Reactive Energy	68	Read	4	float
1	3	144	T2 Forward Reactive Energy	69	Read	4	float
1	3	146	T2 Reverse Reactive Energy	70	Read	4	float
1	3	148	T3 Total Active Energy	71	Read	4	float
1	3	014A	T3 Forward Active Energy	72	Read	4	float
1	3	014C	T3 Reverse Active Energy	73	Read	4	float
1	3	014E	T3 Total Reactive Energy	74	Read	4	float

1	3	150	T3 Forward Reactive Energy	75	Read	4	float
1	3	152	T3 Reverse Reactive Energy	76	Read	4	float
1	3	154	T4 Total Active Energy	77	Read	4	float
1	3	156	T4 Forward Active Energy	78	Read	4	float
1	3	158	T4 Reverse Active Energy	79	Read	4	float
1	3	015A	T4 Total Reactive Energy	80	Read	4	float
1	3	015C	T4 Forward Reactive Energy	81	Read	4	float
1	3	015E	T4 Reverse Reactive Energy	82	Read	4	float
Write operation:							
1	6	2	Meter ID	1	Write	2	
1	6	3	Baud Rate	2	Write	2	
1	10	9	SO OUTPUT	4	Write	4	float

In case of error, the exception code 83 is returned

Possible errors:

- 1 the function code is invalid
- 2 the register address does not exist
- 3 the data does not comply with the requirements, generally write data exceeds range
- 4 equipment error, this program is not used