



Modbus Protocol

eYc DST01 Universal Isolation Signal Converter / Splitter






eYc DST01



1. Factory Default

The signal conditioner parameters can be loaded with default values listed in the parameter description table. In certain situation it is desirable to retain these values after the values of the parameters have been changed. The below procedure to be followed to reload the default values.

- (1) Use   keys to access the FILE parameters
- (2) Set PASS = CODE to access other parameters
- (3) Select the dFLt in File
- (4) Press and hold  for 5 seconds or until the upper display FILE flash for a moment. The default values of all parameters are loaded now.

2. Parameters Description

Modbus Register Address	Parameter Notation	Parameter Description	Range	Default Value	Data Type	Scale Low	Scale High
0	PASS	Security Password	Low : 0 High : 9999	0	RW	0	65535
1	INPT	Input sensor selection	0. J_tC : J type Thermocouple 1. K_tC : K type Thermocouple 2. T_tC : T type Thermocouple 3. E_tC : E type Thermocouple 4. B_tC : B type Thermocouple 5. R_tC : R type Thermocouple 6. S_tC : S type Thermocouple 7. N_tC : N type Thermocouple 8. L_tC : L type Thermocouple 9. U_tC : U type Thermocouple 10. P_tC : P type Thermocouple 11. C_tC : C type Thermocouple 12. D_tC : D type Thermocouple 13. Pt.dN : Pt100 Ω DIN curve 14. Pt.JS : Pt 100 Ω JIS curve 15. 4 ... 20 : 4 ... 20 mA linear current input 16. 0 ... 20 : 0 ... 20 mA linear current input 17. 0 ... 50 : 0 ... 50mV linear voltage input 18. 0 ... 60 : 0 ... 60mV linear voltage input 19. 0 ... 5V : 0 ... 5V linear voltage input 20. 1 ... 5V : 1 ... 5V linear voltage input 21. 0 ... 10 : 0 ... 10V linear voltage input	15	RW	0	65535

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Modbus Register Address	Parameter Notation	Parameter Description	Range	Default Value	Data Type	Scale Low	Scale High
2	UNIT	Input unit selection	0. °C : °C unit 1. °F : °F unit 2. Pu : Process unit	0	RW	0	65535
3	DP	Decimal point selection	0. No.dP : No decimal point 1. 1-dP : 1 decimal digit 2. 2-dP : 2 decimal digits 3. 3-dP : 3 decimal digits	1	RW	0	65535
4	IN.Lo	Input low scale value	Low : -19999 High : 45536 IN.Lo ≠ IN.HI	-17.8°C (0.0°F)	RW	-19999	45536
5	IN.HI	Input high scale value	Low : -19999 High : 45536 IN.Lo ≠ IN.HI	37.8°C (100.0°F)	RW	-19999	45536
6	FILT	Filter damping time constant of PV	0. 0 : 0 second time constant 1. 0.2 : 0.2 second time constant 2. 0.5 : 0.5 second time constant 3. 1 : 1 second time constant 4. 2 : 2 second time constant 5. 5 : 5 second time constant 6. 10 : 10 second time constant 7. 20 : 20 second time constant 8. 30 : 30 second time constant 9. 60 : 60 second time constant	2	RW	0	65535
7	DISP	MV display selection	0. MV1 : Display MV1 1. MV12 : Display MV1 & MV2 2. CYCL : Display all MV cycled	0	RW	0	65535
8	LCUT	Input low cut value	OFF or Low : 0 High : 20000 for °C Low : 0 High : 36000 for °F	OFF	RW	-19999	45536

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Modbus Register Address	Parameter Notation	Parameter Description	Range	Default Value	Data Type	Scale Low	Scale High
9	SQRT	Square root function	0. oFF : Square root disable 1. oUt1 : Square root enable for output 1 2. ot.12 : Square root enable for output 1 & output 2 3. ALL : Square root enable for all outputs	0	R/W	0	65535
10	DI	Digital input function	0. NoNE : None 1. MA.Ho : Hold max value of PV 2. DA.Ho : Hold current value of PV 3. ZErO : Force PV to 0	0	R/W	0	65535
11	OFSTL	Offset value for low point calibration	Low : -1999 High : 1999	0	R/W	-19999	45536
12	CALO	Input signal value during low point calibration	Low : -19999 High : 45536 CALO ≠CAHI.	0	R/W	-19999	45536
13	OFSTH	Offset value for high point calibration	Low : -1999 High : 1999	0	R/W	-19999	45536
14	CAHI	Input signal value during high point calibration	Low : -19999 High : 45536 CAHI ≠CALO.	1000	R/W	-19999	45536
15	CODE	Security code for parameter protection	Low : 0 High : 9999	0	R/W	0	65535
16	LOCK	Parameters lock	0. 0 oFF : Lock off 1. 1 oN : Lock on	0	R/W	0	65535
17	O1TY	Output 1 signal type	0. 0 ... 20 : 0 ... 20 mA linear current 1. 4 ... 20 : 4 ... 20 mA linear current 2. 0 ... 10 : 0 ... 10 V linear voltage 3. 0 ... 5 V : 0 ... 5 V linear voltage 4. 1 ... 5 V : 1 ... 5 V linear voltage 5. 2 ... 10 : 2 ... 10 V linear voltage	1	R/W	0	65535
18	ANL1	Output 1 retransmission low value	Low : -19999 High : 45536	-17.8°C (0.0 °F)	R/W	-19999	45536
19	ANH1	Output 1 retransmission high value	Low : -19999 High : 45536	37.8°C (100.0°F)	R/W	-19999	45536

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Modbus Register Address	Parameter Notation	Parameter Description	Range	Default Value	Data Type	Scale Low	Scale High
20	OTZ1	Output 1 zero adjustment	Low : -1.000 High 1.000	0	R/W	-19999	45536
21	OTS1	Output 1 span adjustment	Low : -1.000 High 1.000	0	R/W	-19999	45536
22	O2TY	Output 2 signal type	0. 0 ... 20 : 0 ... 20 mA linear current 1. 4 ... 20 : 4 ... 20 mA linear current 2. 0 ... 10 : 0 ... 10 V linear voltage 3. 0 ... 5 V : 0 ... 5 V linear voltage 4. 1 ... 5 V : 1 ... 5 V linear voltage 5. 2 ... 10 : 2 ... 10 V linear voltage	1	R/W	0	65535
23	ANL2	Output 2 retransmission low value	Low : -19999 High : 45536	-17.8°C (0.0 °F)	R/W	-19999	45536
24	ANH2	Output 2 retransmission high value	Low : -19999 High : 45536	37.8°C (100.0°F)	R/W	-19999	45536
25	OTZ2	Output 2 zero adjustment	Low : -1.000 High : 1.000	0	R/W	-19999	45536
26	OTS2	Output 2 span adjustment	Low : -1.000 High : 1.000	0	R/W	-19999	45536
27	O3TY	Output 3 signal type	0. 0 ... 20 : 0 ... 20 mA linear current 1. 4 ... 20 : 4 ... 20 mA linear current 2. 0 ... 10 : 0 ... 10 V linear voltage 3. 0 ... 5 V : 0 ... 5 V linear voltage 4. 1 ... 5 V : 1 ... 5 V linear voltage 5. 2 ... 10 : 2 ... 10 V linear voltage	1	R/W	0	65535
28	ANL3	Output 3 low point retransmission value	Low : -19999 High : 45536	-17.8°C (0.0 °F)	R/W	-19999	45536
29	ANH3	Output 3 high point temperature	Low : -19999 High : 45536	37.8°C (100.0°F)	R/W	-19999	45536
30	OTZ3	Output 3 zero adjustment	Low : -1.000 High : 1.000	0	R/W	-19999	45536
31	OTS3	Output 3 span adjustment	Low : -1.000 High : 1.000	0	R/W	-19999	45536

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Modbus Register Address	Parameter Notation	Parameter Description	Range	Default Value	Data Type	Scale Low	Scale High
32	ADDR	Address assignment of digital communication	Low : 1 High : 255	1	RW	0	65535
33	BAUD	Baud rate of digital communication	0. 2K4 : 2.4 Kbits/s baud rate 1. 4K8 : 4.8 Kbits/s baud rate 2. 9K6 : 9.6 Kbits/s baud rate 3. 14K4 : 14.4 Kbits/s baud rate 4. 19K2 : 19.2 Kbits/s baud rate 5. 28K8 : 28.8 Kbits/s baud rate 6. 38K4 : 38.4 Kbits/s baud rate 7. 57K6 : 57.6 Kbits/s baud rate 8. 115K : 115.2 Kbits/s baud rate	6	RW	0	65535
34	DATA	Data bit count of digital communication	0. 7bit : 7 data bits 1. 8bit : 8 data bits	1	RW	0	65535
35	PARI	Parity bit of digital communication	0. EVEN : Even Parity 1. Odd : Odd parity 2. NoNE : No parity bit	2	RW	0	65535
36	STOP	Stop bit count of digital communication	0. 1bit : One stop bit 1. 2bit : Two stop bits	1	RW	0	65535
37	KPAS	Calibration password	Low : 0 High : 9999	0	RW	0	65535
38	ADLO	mV calibration low coefficient	Low : -1999 High : 1999	----	RW	-19999	45536
39	ADHI	mV calibration high coefficient	Low : -1999 High : 1999	----	RW	-19999	45536
40	RTDL	RTD calibration low coefficient	Low : -1999 High : 1999	----	RW	-19999	45536
41	RTDH	RTD calibration high coefficient	Low : -1999 High : 1999	----	RW	-19999	45536
42	CJLO	Cold junction calibration low coefficient	Low : -5.00 High : 40.00	----	RW	-19999	45536
43	CJHI	Cold junction calibration high coefficient	Low : -1999 High : 1999	----	RW	-19999	45536
44	V1L	V1 calibration low coefficient	Low : -1999 High : 1999	----	RW	-19999	45536
45	V1G	V1 calibration high coefficient	Low : -1999 High : 1999	----	RW	-19999	45536
46	MA1L	MA1 calibration low coefficient	Low : -1999 High : 1999	----	RW	-19999	45536

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Modbus Register Address	Parameter Notation	Parameter Description	Range	Default Value	Data Type	Scale Low	Scale High
47	MA1G	MA1 calibration high coefficient	Low : -1999 High : 1999	----	RW	-19999	45536
48	CJCT	Cold Junction Temperature	Low : -4000 High : 9000	----	R	-19999	45536
49	CJCL	Sense voltage during cold junction calibration low	Low : 0 High : 7552	----	R	0	65535
50	PV	Process value	Low : -19999 High : 45536	----	R	-19999	45536
51	MV	Manual control function	0. oFF : Manual control off 1. oN : Manual control on	0	RW	0	65535
52	MV1	Output 1 percentage value	Low : 0.00 High : 100.00	----	R (RW, manual)	0	65535
53	MV2	Output 2 percentage value	Low : 0.00 High : 100.00	----	R (RW, manual)	0	65535
54	MV3	Output 3 percentage value	Low : 0.00 High : 100.00	----	R (RW, manual)	0	65535
55	EROR	Error code	Low : 0 High : 65535	----	R	0	65535
56	MODE	Operation mode	Low : 0 High : 65535	----	R	0	65535
57	PROG	Program code	R24 : 24. XX	----	R	0	65535
58	CMND	Command code	Low : 0 High : 65535	----	RW	0	65535
59	JOB	Job code	Low : 0 High : 65535	----	RW	0	65535
60	OFS1	Option function 1 selection	0. NoNE : No selected 1. R485 : RS-485 2. dI1 : Digital input 1	2	RW	0	65535
61	OFS2	Option function 2 selection	0. NoNE : No selected 1. REtR : Retransmission output 2. dI2 : Digital input 2	0	RW	0	65535

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