

CMX Communication manual

Register Address	Parameter Notation	Parameter Description	Range	Default Value	Data Type	Scale Low	Scale High
0	PASS	Machine password	Low: 0 High: 9999	0	R/W	0	65535
1	INPT	Input sensor selection	0 <i>J_tC</i> : J type thermocouple 1 <i>K_tC</i> : K type thermocouple 2 <i>T_tC</i> : T type thermocouple 3 <i>E_tC</i> : E type thermocouple 4 <i>B_tC</i> : B type thermocouple 5 <i>R_tC</i> : R type thermocouple 6 <i>S_tC</i> : S type thermocouple 7 <i>N_tC</i> : N type thermocouple 8 <i>L_tC</i> : L type thermocouple 9 <i>U_tC</i> : U type thermocouple 10 <i>P_tC</i> : P type thermocouple 11 <i>C_tC</i> : C type thermocouple 12 <i>D_tC</i> : D type thermocouple 13 <i>Pt.dN</i> : PT 100 ohms DIN curve 14 <i>Pt.JS</i> : PT 100 ohms JIS curve 15 <i>4-20</i> : 4 - 20 mA linear current input 16 <i>0-20</i> : 0 - 20 mA linear current input 17 <i>0-50</i> : 0 - 50mV linear voltage input 18 <i>0-60</i> : 0 - 60mV linear voltage input 19 <i>0-5V</i> : 0 - 5V linear voltage input 20 <i>1-5V</i> : 1 - 5V linear voltage input 21 <i>0-10</i> : 0 - 10V linear voltage input	15	R/W	0	65535
2	UNIT	Input unit selection	0 <i>oC</i> : Degree C unit 1 <i>oF</i> : Degree F unit 2 <i>Pu</i> : Process unit	2	R/W	0	65535

3	DP	Decimal point selection	0 <i>No.dP</i> : No decimal point 1 <i>1-dP</i> : 1 decimal digit 2 <i>2-dP</i> : 2 decimal digit 3 <i>3-dP</i> : 3 decimal digit	1	R/W	0	65535
4	DSPL	Input low scale value	Low: -19999 High: 45536 DSPL can not equal to DSPH.	-17.8 °C (0.0 °F)	R/W	-19999	45536
5	DSPH	Input high scale value	Low: -19999 High: 45536 DSPH can not equal to DSPL.	37.8 °C (100.0 °F)	R/W	-19999	45536
6	AVG	Filter damping time constant of PV	0 <i>0</i> : 0 second time constant 1 <i>0.2</i> : 0.2 second time constant 2 <i>0.5</i> : 0.5 second time constant 3 <i>1</i> : 1 second time constant 4 <i>2</i> : 2 second time constant 5 <i>5</i> : 5 second time constant 6 <i>10</i> : 10 second time constant 7 <i>20</i> : 20 second time constant 8 <i>30</i> : 30 second time constant 9 <i>60</i> : 60 second time constant	2	R/W	0	65535
7	DISP	Bottom display selection	0 <i>MV1</i> : display MV1 1 <i>MV12</i> : display MV1 and MV2 2 <i>CYCL</i> : display all cycled	0	R/W	0	65535
8	LCUT	Input low cut value	<i>OFF</i> or Low: 0 High: 20000 for °C 0 High: 36000 for °F	OFF	R/W	-19999	45536
9	SQRT	Square root function	0 <i>oFF</i> : Square root disable 1 <i>oN</i> : Square root enable	0	R/W	0	65535
10	DI	Digital input function	0 <i>NoNE</i> : None 1 <i>MA.Ho</i> : Hold max value of PV 2 <i>DA.Ho</i> : Hold current value of PV 3 <i>ZEro</i> : 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 can not equal to 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 can not equal to 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 <i>oFF</i> : Lock off 1 <i>oN</i> : Lock on	0	R/W	0	65535
17	OUT1	Output 1 signal type	0 <i>0-20</i> : 0-20 mA current module 1 <i>4-20</i> : 4-20 mA current module 2 <i>0-10</i> : 0-10V voltage module 3 <i>0-5V</i> : 0-5V voltage module 4 <i>1-5V</i> : 1-5V voltage module 5 <i>2-10</i> : 2-10V voltage module	1	R/W	0	65535
18	ANL1	Output 1 low point temperature	Low: -19999 High: 45536	-17.8 °C (0.0 °F)	R/W	-19999	45536
19	ANH1	Output 1 high point temperature	Low: -19999 High: 45536	37.8 °C (100.0 °F)	R/W	-19999	45536
20	OTZ1	Output 1 low point calibrate	Low: -1.000 High 1.000	0	R/W	-19999	45536
21	OTS1	Output 1 high point calibrate	Low: -1.000 High 1.000	0	R/W	-19999	45536
22	OUT2	Output 2 signal type	0 <i>0-20</i> : 0-20 mA current module 1 <i>4-20</i> : 4-20 mA current module 2 <i>0-10</i> : 0-10V voltage module 3 <i>0-5V</i> : 0-5V voltage module 4 <i>1-5V</i> : 1-5V voltage module 5 <i>2-10</i> : 2-10V voltage module	1	R/W	0	65535

23	ANL2	Output 2 low point temperature	Low: -19999 High: 45536	-17.8 °C (0.0 °F)	R/W	-19999	45536
24	ANH2	Output 2 high point temperature	Low: -19999 High: 45536	37.8 °C (100.0 °F)	R/W	-19999	45536
25	OTZ2	Output 2 low point calibrate	Low: -1.000 High 1.000	0	R/W	-19999	45536
26	OTS2	Output 2 high point calibrate	Low: -1.000 High 1.000	0	R/W	-19999	45536
27	OUT3	Output 3 signal type	0 0-20 : 0-20 mA current module 1 4-20 : 4-20 mA current module 2 0-10 : 0-10V voltage module 3 0-5V : 0-5V voltage module 4 1-5V : 1-5V voltage module 5 2-10 : 2-10V voltage module	1	R/W	0	65535
28	ANL3	Output 3 low point temperature	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 low point calibrate	Low: -1.000 High 1.000	0	R/W	-19999	45536
31	OTS3	Output 3 high point calibrate	Low: -1.000 High 1.000	0	R/W	-19999	45536
32	ADDR	Address assignment of digital communication	Low: 1 High: 255	1	R/W	0	65535
33	BAUD	Baud rate of digital communication	0 2.4 : 2.4 Kbits/s baud rate 1 4.8 : 4.8 Kbits/s baud rate 2 9.6 : 9.6 Kbits/s baud rate 3 14.4 : 14.4 Kbits/s baud rate 4 19.2 : 19.2 Kbits/s baud rate 5 28.8 : 28.8 Kbits/s baud rate 6 38.4 : 38.4 Kbits/s baud rate 7 57.6 : 57.6 Kbits/s baud rate 8 115.2 : 115.2 Kbits/s baud rate	2	R/W	0	65535
34	DATA	Data bit count of digital communication	0 7bIt : 7 data bits 1 8bIt : 8 data bits	1	R/W	0	65535

35	PARI	Parity bit of digital communication	0 <i>EVEN</i> : Even parity 1 <i>odd</i> : Odd parity 2 <i>NoNE</i> : No parity bit	0	R/W	0	65535
36	STOP	Stop bit count of digital communication	0 <i>1bIt</i> : One stop bit 1 <i>2bIt</i> : Two stop bits	0	R/W	0	65535
37	KPAS	Calibration password	Low: 0 High: 9999	0	R/W	0	65535
38	ADLO	mV calibration low coefficient	Low: -1999 high: 1999	-----	R/W	-19999	45536
39	ADHI	mV calibration high coefficient	Low: -1999 high: 1999	-----	R/W	-19999	45536
40	RTDL	RTD calibration low coefficient	Low: -1999 high: 1999	-----	R/W	-19999	45536
41	RTDH	RTD calibration high coefficient	Low: -1999 high: 1999	-----	R/W	-19999	45536
42	CJLO	Cold junction calibration low coefficient	Low: -5.00 high: 40.00	-----	R/W	-19999	45536
43	CJHI	Cold junction calibration high coefficient	Low: -1999 high: 1999	-----	R/W	-19999	45536
44	V1L	V1 calibration low coefficient	Low: -1999 high: 1999	-----	R/W	-19999	45536
45	V1G	V1 calibration high coefficient	Low: -1999 high: 1999	-----	R/W	-19999	45536
46	MA1L	MA1 calibration low coefficient	Low: -1999 high: 1999	-----	R/W	-19999	45536
47	MA1G	MA1 calibration high coefficient	Low: -1999 high: 1999	-----	R/W	-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 <i>oFF</i> : Manual control off 1 <i>oN</i> : Manual control on	0	R/W	0	65535
52	MV1	Output 1 percentage value	Low: 0.00 High: 100.00	-----	R (R/W,manual)	0	65535
53	MV2	Output 2 percentage value	Low: 0.00 High: 100.00	-----	R (R/W,manual)	0	65535
54	MV3	Output 3 percentage value	Low: 0.00 High: 100.00	-----	R (R/W,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	-----	R/W	0	65535
59	JOB	Job code	Low: 0 High: 65535	-----	R/W	0	65535
60	OFS1	Option function 1 selection	0 <i>NoNE</i> : No selected 1 <i>R485</i> : RS-485 2 <i>dI1</i> : Digital input 1	2	R/W	0	65535
61	OFS2	Option function 2 selection	0 <i>NoNE</i> : No selected 1 <i>REtR</i> : Retransmission output	0	R/W	0	65535