



TEK-CoVOR 1300D

Steam Quality Meter

Modbus Manual

Document Number: MM-1300D



www.tek-trol.com

NOTICE

Read this manual before working with the product. For personal and system safety, and for optimum product performance, make sure you thoroughly understand the contents before installing, using, or maintaining this product.

For technical assistance, contact

Customer Support

796 Tek-Drive

Crystal Lake, IL 60014

USA

Tel: +1 847 857 6076, +1 847 655 7428

© COPYRIGHT Tek-Trol LLC 2020

No part of this publication may be copied or distributed, transmitted, transcribed, stored in a retrieval system, or translated into any human or computer language, in any form or by any means, electronic, mechanical, manual, or otherwise, or disclosed to third parties without the express written permission. The information contained in this manual is subject to change without notice.

Table of Contents

1	Serial Port and Communication Protocol.....	2
1.1	Modbus Register Address Table.....	2

1 Serial Port and Communication Protocol

1.1 Modbus Register Address Table

Table 1 Shows the MODBUS Register Address Table.

Table 1: MODBUS Register Address Table.

Tek-Trol Meter Modbus/TCP registers					
Rev 1.12	FCA 8000A				
Rev 1.13	For FW 96.4 CoVor				
Rev 1.14	For FW rev 96.5 CoVor DP Health Check				
Rev 1.16	Prognosis				
All Addresses are Zero based. Float and Long registers must be read in pairs.					
Always supported Function code FC03 for reading and FC16 for writing. Register order is always 0-1, 2-3. Big endian for short data and Big endian for words in Long and Float data types. Starting from Rev. 1.6 and F/W rev 1.0 Function Code FC05 is also supported and used for initiating some actions.					
Address	Variable	Unit	Type	R/W	Comments
0	Temperature		Float	RO	
2	Temperature1		Float	RO	
4	Pressure		Float	RO	
6	Volume Flow		Float	RO	
8	Mass Flow		Float	RO	
10	Energy Flow		Float	RO	
12	Fluid Viscosity		Float	RO	
14	Fluid Density		Float	RO	
16	Fluid Enthalpy (0)		Float	RO	
18	Fluid Enthalpy (1)		Float	RO	
20	Standard Reference Density		Float	RO	
22	Normal Reference Density		Float	RO	
24	Frequency		Float	RO	
26	Filter Frequency		Float	RO	
28	fluid Velocity		Float	RO	
30	Reynolds Number		Float	RO	
32	Temp Comp K Factor		Float	RO	
34	RTD Resistance (0)		Float	RO	
36	RTD Resistance (1)		Float	RO	
38	Kc		Float	RO	
40	R Total (0).fp		Float	RO	
42	R Total (1).fp		Float	RO	
44	R Total (2).fp		Float	RO	
46	R Total (3).fp		Float	RO	
48	NR Total (0).fp		Float	RO	
50	NR Total (1).fp		Float	RO	
52	NR Total (2).fp		Float	RO	
54	NR Total (3).fp		Float	RO	
56	Meter Profile Initial Base Kc		Float	RO	
58	Placeholder		Float	RO	
60	Placeholder		Float	RO	
62	Placeholder		Float	RO	

64	Placeholder		Float	RO	
66	Meter Profile Base Re		Float	RO	
68	Internal Temperature		Float	RO	
70	Scaled Output Frequency		Float	RO	
72	Max Velocity		Float	RO	
74	Max Temperature		Float	RO	
76	Max Temperature 1		Float	RO	
78	Max Pressure		Float	RO	
80	Max Internal Temperature		Float	RO	
82	Min Internal Temperature		Float	RO	
84	V _{rms}		Float	RO	
86	Hourly Flow		Float	RO	
Added in Rev 75 of FW					
88	Obscuration		Float	RO	
90	Profile Factor		Float	RO	
92	Insertion		Float	RO	
94	Pipe Area		Float	RO	
96	Glycol Weight %		Float	RO	
98	Loop Milli-amps		Float	RO	
100	Differential Pressure		Float	RO	In 96.4
DP Health check					
Address	Variable	Unit	Type	R/W	Comments
200	Averaging Count		Float	RO	
202	Differential Pressure 1	inH ₂ O	Float	RO	
204	Differential Pressure 2	inH ₂ O	Float	RO	
206	Differential Pressure 3	inH ₂ O	Float	RO	
208	Quality by P	%	Float	RO	
210	Quality by T	%	Float	RO	
212	Density of Mixture	lbm/ft ³	Float	RO	
214	Density of Saturated Steam T	lbm/ft ³	Float	RO	
216	Density of Saturated Steam P	lbm/ft ³	Float	RO	
218	Density of Water by T	lbm/ft ³	Float	RO	
220	Density of Steam by T	lbm/ft ³	Float	RO	
222	Density of Water by P	lbm/ft ³	Float	RO	
224	Density of Steam by P	lbm/ft ³	Float	RO	
226	At		Float	RO	
228	E		Float	RO	
230	Beta (sqrt (At/A))		Float	RO	
232	Y		Float	RO	
234	Mass Flow of Mixture	bbl/day	Float	RO	
236	Temperature DP1	°C	Float	RO	
238	Temperature DP2	°C	Float	RO	
240	Temperature DP3	°C	Float	RO	
242	Viscosity (used in Cd2 only)		Float	RO	
242	Calculated Reynolds number				
246	Calculated Cd2		Float	RO	
248	DP1 averaged		Float	RO	
250	DP2 averaged		Float	RO	
252	DP3 averaged		Float	RO	
254	Temperature DP1 averaged	°C	Float	RO	
256	Temperature DP2 averaged	°C	Float	RO	
258	Temperature DP3 averaged	°C	Float	RO	

260	Y averaged		Float	RO	
262	Mass Flow of Mixture averaged	bbl/day	Float	RO	
264	Reynolds number averaged		Float	RO	
266	Cd2 averaged		Float	RO	
268	Actual sample time	ms	Float	RO	
270	Quality by P average	%	Float	RO	
272	Quality by T averaged	%	Float	RO	
274	Density of Mixture averaged	lbm/ft ³	Float	RO	
276	STDEV DP1		Float	RO	
278	STDEV DP2		Float	RO	
280	STDEV DP3		Float	RO	
282	STDEV Temp DP1		Float	RO	
284	STDEV Temp DP2		Float	RO	
286	STDEV Temp DP3		Float	RO	
The following registers exist in Prognosis version					
288	mt massflow traditional	kg/s	Float	RO	
290	mr massflow recovered	kg/s	Float	RO	
292	mppl massflow ppl	kg/s	Float	RO	
294	Cdi iterated		Float	RO	
296	Kri iterated		ndx	RO	
298	Kppli iterated		Float	RO	
300	PLR		Float	RO	
302	PRR		Float	RO	
304	RPR		Float	RO	
306	X1		Float	RO	
308	Y1		Float	RO	
310	X2		Float	RO	
312	Y2		Float	RO	
314	X3		Float	RO	
316	X3		Float	RO	
318	X4		Float	RO	
320	Re		Float	RO	
322	Y		Float	RO	
324	hi (6D correction)		Float	RO	
326	XX1		Float	RO	
328	XX2		Float	RO	
330	XX3		Float	RO	
332	Z correction		Float	RO	
340	Warning signature 16 bit hex		Short	RO	
Address	Variable	Unit	Type	R/W	Comments
500	R Total [0].ip		Long	RO	
502	R Total [1].ip		Long	RO	
504	R Total [2].ip		Long	RO	
506	R Total [3].ip		Long	RO	
508	NR Total[0].ip[0]		Long	RO	
510	NR Total[0].ip[1]		Long	RO	
512	NR Total [1].ip[0]		Long	RO	
514	NR Total[1].ip[1]		Long	RO	
516	NR Total[2].ip[0]		Long	RO	
518	NR Total[2].ip[1]		Long	RO	
520	NR Total[3].ip[0]		Long	RO	

522	NR Total[3].ip[1]		Long	RO	
524	Totalizer 1		Long	RO	
526	Totalizer 2		Long	RO	
528	External AD Counts		Long	RO	
Address	Variable	Unit	Type	R/W	Comments
1000	Var Faults		Short	RO	
1001	NVAR Faults		Short	RO	
1002	AD Counts [0]		Short	RO	
1003	AD Counts[1]		Short	RO	
1004	AD Counts[2] short		Short	RO	
1005	AD Counts[3]		Short	RO	
1006	Analog Out Counts 0		Short		
1007	Analog Out Counts 1		Short	RO	
1008	Analog Out Counts 2		Short	RO	
Added in Rev 75 of FW					
1009	Exceptions		Short	RO	
Address	Variable	Unit	Type	R/W	Comments
1500	Auto Filters		Short (byte)	RO	
1501	Total Log Entries 0		Short (byte)	RO	
1502	Total Log Entries 1		Short (byte)	RO	
1503	Total Log Entries 2		Short (byte)	RO	
1504	Total Log Entries 3		Short (byte)	RO	
1505	Clock Year		Short (byte)	RO	
1606	Clock Month		Short (byte)	RO	
1507	Clock Day		Short (byte)	RO	
1508	Clock Hour		Short (byte)	RO	
1509	Clock Minute		Short (byte)	RO	
1510	Clods Second		Short (byte)	RO	
Added in Rev 75 of FW					
1511	Hardware Revision		Short (byte)	RO	
1512	Software Revision		Short (byte)	RO	
1513	Firmware Minor Revision		Short (byte)	RO	
1514	Signal Hardware		Short (byte)	RO	
1515	Signal Software		Short (byte)	RO	
1516	System Log Entries		Short (byte)	RO	
1517	Alarm Log Entries		Short (byte)	RO	
1518	Maximum System Records		Short (byte)	RO	
1519	Maximum Alarm Records		Short (byte)	RO	
Address	Variable	Unit	Type	R/W	Comments
2000	Mass Units		ASCII	RO	
2006	Volume Units		ASCII	RO	
2012	Energy Units		ASCII	RO	
2018	Pressure Units		ASCII	RO	
2024	Temperature Units		ASCII	RO	
2030	Density Units		ASCII	RO	
2036	Totalizer 1 Units		ASCII	RO	
2042	Totalizer 2 Units		ASCII	RO	
Added In 96.4 to the end!					
2048	DP Units		ASCII	RO	
Register Should read 6 rigs at time					
Address	Variable	Unit	Type	R/W	Comments

3000	Simulated Vortex Frequency		Float	RW	
3002	Simulated Temperature 0		Float	RW	
3004	Simulated temperature 1		Float	RW	
3006	Simulated Pressure		Float	RW	
3008	Insertion Pipe Diameter		Float	RW	
3010	Atmospheric Pressure		Float	RW	
3012	Other Liquid Density		Float	RW	
3014	Other Liquid AL		Float	RW	
3016	Other Liquid BL		Float	RW	
3018	Goyal Mole Weight		Float	RW	
3020	Goyal Critical Pressure		Float	RW	
3022	Goyal Critical Temperature		Float	RW	
3024	Goyal Critical Z		Float	RW	
3026	Goyal AL		Float	RW	
3028	Goyal BL		Float	RW	
3030	APL Density		Float	RW	
3032	Other Liquid BL		Float	RW	
3034	API K1		Float	RW	
3036	API AL		Float	RW	
3038	API BL		Float	RW	
3040	Natural Gas SG		Float	RW	
3042	Natural Gas Mole Fraction N2		Float	RW	
3044	Natural Gas Mole Fraction CO ₂		Float	RW	
3046	Natural Gas Reference Temperature		Float	RW	
3048	Natural Gas Reference Pressure		Float	RW	
3050	Other Gas Specific Gravity		Float	RW	
3052	Other Gas Comp Z		Float	RW	
3054	Other Gas Viscosity		Float	RW	
3056	Fluid Standard Temperature		Float	RW	
3058	Fluid Standard Pressure		Float	RW	
3060	Fluid Normal Temperature		Float	RW	
3062	Fluid Normal Pressure		Float	RW	
3064	Alarm 0 Limit		Float	RW	
3066	Alarm 1 Limit		Float	RW	
3068	Alarm 2 Limit		Float	RW	
3070	Hart Variable [0] Lower Range		Float	RW	
3072	Hart Variable [0] Upper Range		Float	RW	
3074	Hart Variable [1] Lower Range		Float	RW	
3076	Hart Variable [1] Upper Range		Float	RW	
3078	Hart Variable [2] Lower Range		Float	RW	
3080	Hart Variable [2] Upper Range		Float	RW	
3082	Analog Output [0] Time Constant		Float	RW	
3084	Analog Output [1] Time Constant		Float	RW	
3086	Analog Output [2] Time Constant		Float	RW	
3088	Analog Alarm [0] Limit		Float	RW	
3090	Analog Alarm [1] Limit		Float	RW	
3092	Analog Alarm [2] Limit		Float	RW	
3094	Hart Variable [3] Lower Range		Float	RW	
3096	Hart Variable [3] Upper Range		Float	RW	
3098	Pulse Full Scale Frequency				
3100	Unit Per Pulse		Float	RW	
3102	Analog Out [3] Scaled Frequency		Float	RW	

3104	Manual Filter Frequency		Float	RW	
3106	Flow Rate Adjustment Factor		Float	RW	
3108	Ext Loop Zero Scale		Float	RW	
3110	Ext Loop Full Scale		Float	RW	
3112	Roughness		Float	RW	
3112	Ethylene Glycol %		Float	RW	
3114	Steam Standard Temperature (F)		Float	RW	
3118	Steam Standard Pressure (psia)		Float	RW	
3120	Steam Normal Temperature (C)		Float	RW	
3122	Steam Normal Pressure (kPa)		Float	RW	
Address	Variable	Unit	Type	R/W	Comments
3500	User Password		long	RW	
3502	Super Password		long	RW	
3504	Display Menus		long	RW	
Added in Rev 75 of FW					
3506	Display In Time		long	RW	
3508	Modbus RTC Time		long	RW	H, M, _, S
3510	Modbus RTC Date		long	RW	M, D, _Y 2000
Address	Variable	Unit	Type	R/W	See Note 1
4000	Conversion Temperature		BYTE	RW	
4001	Conversion Pressure		BYTE	RW	
4002	Conversion Volume		BYTE	RW	
4003	Conversion Mass		BYTE	RW	
4004	Conversion Energy		BYTE	RW	
4005	Conversion Density		BYTE	RW	
4006	Conversion Diff Pressure		BYTE	RW	96 .04
Address	Variable	Unit	Type	R/W	Comments
4500	Fluid Type		BYTE	RW	
4501	Real Liquid Type		BYTE	RW	
4502	Real Gas Type		BYTE	RW	
4503	Alarm [0] Assign		BYTE	RW	
4504	Alarm [0] Mode		BYTE	RW	
4505	Alarm [1] Assign		BYTE	RW	
4506	Alarm [1] Mode		BYTE	RW	
4507	Alarm [2] Assign		BYTE	RW	
4508	Alarm [2] Mode		BYTE	RW	
4509	Analog Out [0] Assign		BYTE	RW	
4510	Analog Out [1] Assign		BYTE	RW	
4511	Analog Out [2] Assign		BYTE	RW	
4512	Analog Alarm [0] Assign		BYTE	RW	
4513	Analog Alarm [0] Mode		BYTE	RW	
4514	Analog Alarm [1] Assign		BYTE	RW	
4515	Analog Alarm [1] Mode		BYTE	RW	
4516	Analog Alarm [2] Assign		BYTE	RW	
4517	Analog Alarm [2] Mode		BYTE	RW	
4518	Analog Out Fault Enable		BYTE	RW	
4519	Pulse Assign		BYTE	RW	
4520	Analog Out [3] Assign		BYTE	RW	
4521	Modbus Baud Rate Index BYTE		BYTE	RW	
4522	Mod bus Address		BYTE	RW	
4523	Modbus Protocol		BYTE	RW	
4524	Modbus Register Order		BYTE	RW	

4525	Modbus Units		BYTE	RW	
4526	Display Scan Time		BYTE	RW	
4527	Display Precision		BYTE	RW	
4528	Display Smoothing TC		BYTE	RW	
4529	Mass Flow Scaling		BYTE	RW	
4530	Volume Flow Scaling BYTE		BYTE	RW	
4531	Current Gain		BYTE	RW	
4532	Total Assign		BYTE	RW	
4533	Total 2 Assign		BYTE	RW	
Added in Rev 77.04 of FW					
4534	Fluid Gas Type		BYTE	RW	
4535	Thermal Oil Type		BYTE	RW	
4536	External Loop Assign		BYTE	RW	
4537	DP Application: 0-none, 1 Density,2-Quality,3-Orifice		BYTE	RW	n,d,q
Address	Variable	Unit	Type	R/W	Comments
5000	Meter Factor		Float	RW	
5002	Low Flow Cutoff		Float	RW	
5004	Ck		Float	RW	
5006	A2D Ref Resistor		Float	RW	
5008	A2D P Cal Current		Float	RW	
5010	ADS1217TDalpha		Float	RW	
5012	BOO		Float	RW	
5014	B01		Float	RW	
5016	B02		Float	RW	
5018	B10		Float	RW	
5020	B11		Float	RW	
5022	B12		Float	RW	
5024	B20		Float	RW	
5026	B21		Float	RW	
5028	B22		Float	RW	
5030	Temperature [0] RTD A		Float	RW	
5032	Temperature [0] RTD B		Float	RW	
5034	Temperature [0] RTD RO		Float	RW	
5036	Temperature [1] RTD A		Float	RW	
5038	Temperature [1] RTD B		Float	RW	
5040	Temperature [2] RTD B		Float	RW	
5042	F/Velocity Re[0]		Float	RW	
5044	F/Velocity Kf[0]		Float	RW	
5046	F/Velocity Re[1]		Float	RW	
5048	F/Velocity Kf[1]		Float	RW	
5050	F/Velocity Re[2]		Float	RW	
5052	F/Velocity Kf[2]		Float	RW	
5054	F/Velocity Re[3]		Float	RW	
5056	F/Velocity Kf[3]		Float	RW	
5058	F/Velocity Re[4]		Float	RW	
5060	F/Velocity Kf[4]		Float	RW	
5062	F/Velocity Re[5]		Float	RW	
5064	F/Velocity Kf[5]		Float	RW	
5066	F/Velocity Re[6]		Float	RW	
5068	F/Velocity Kf[6]		Float	RW	
5070	F/Velocity Re[7]		Float	RW	

5072	F/Velocity Kf[7]		Float	RW	
5074	F/Velocity Re[8]		Float	RW	
5076	F/Velocity Kf[8]		Float	RW	
5078	F/Velocity Re[9]		Float	RW	
5080	F/Velocity Kf[9]		Float	RW	
5082	Insertion Head Diameter in inch		Float	RW	
5084	New Base Kb		Float	RW	
5086	New Base Rb		Float	RW	
Added in 96.4					
5088	E for cone meter		Float	RW	
5090	Ak for cone meter		Float	RW	
5092	Cd for cone meter		Float	RW	
5094	4-20 mA channel 1 fixed value		Float	RW	
5096	4-20 mA channel 2 fixed value		Float	RW	
5098	4-20 mA channel 3 fixed value		Float	RW	
5100	Scaled Frequency fixed Val HZ		Float	RW	
Added in 96.4					
Address	Variable	Unit	Type	R/W	Comments
5500	Ext input Zero count (6006)		Long	R/W	
5502	Ext input span count		Long	R/W	
Address	Variable	Unit	Type	R/W	Comments
6000	Analog Out [0] Zero Scale Count		short	RW	
6001	Analog Out [0] Full Scale Count		short	RW	
6002	Analog Out [1] Zero Scale Count		short	RW	
6003	Analog Out [1] Full Scale Count		short	RW	
6004	Analog Out [2] Zero Scale Count		short	RW	
6005	Analog Out [2] Full Scale Count		short	RW	
Added in Rev 75 of FW.					
6006	Ext Zero Counts		short	RW	
6007	Ext Span Counts		short	RW	
6500	Inline Meter Index		Byte	RW	See Notes
6501	Disable Reynolds		Byte	RW	
Address	Variable	Unit	Type	R/W	Comments
65000	Maximum Velocity		Float	RW	
65002	Maximum Temperature[0]		Float	RW	
65004	Maximum Temperature[1]		Float	RW	
65006	Maximum Pressure		Float	RW	
Added in Rev 75 of FW					
65100	Serial Number		Long	RW	Admin
Added in Rev 75 of FW					
Address	Variable	Unit	Type	R/W	Comments
65200	Meter Define		short	RW	Bit Flags. See Notes
Added in Rev 75 of FW					
Address	Variable	Unit	Type	R/W	Comments
65300	Pressure Time Constant				
65301	Temperature Time Constant				
65302	Splash Screen				Admin
Added in Rev 75 of FW					
Address	Variable	Unit	Type	R/W	4 Strings X 16 Chairs
7000	System Log Record 0		String	RW	May not be null terminated
7032	System Log Record 1		String	RW	

7064	System Log Record 2		String	RW	
7096	System Log Record 3		String	RW	
7128	System Log Record 4		String	RW	
7160	System Log Record 5		String	RW	
7192	System Log Record 6		String	RW	
7224	System Log Record 7		String	RW	
7256	System Log Record 8		String	RW	
7288	System Log Record 9		String	RW	
7320	System Log Record 10		String	RW	
7352	System Log Record 11		String	RW	
7384	System Log Record 12		String	RW	
7416	System Log Record 13		String	RW	
7448	System Log Record 14		String	RW	
7480	System Log Record 15		String	RW	
7512	System Log Record 16		String	RW	
7544	System Log Record 17		String	RO	
7576	System Log Record 18		String	RO	
7608	System Log Record 19		String	RO	
7640	System Log Record 20		String	RO	
7672	System Log Record 21		String	RO	
7704	System Log Record 22		String	RO	
7736	System Log Record 23		String	RO	
7768	System Log Record 24		String	RO	
7800	Alarm Log Record 0		String	RO	4 strings x 16 chars
7832	Alarm Log Record 1		String	RO	May be not null terminated.
7864	Alarm Log Record 2		String	RO	
7896	Alarm Log Record 3		String	RO	
7928	Alarm Log Record 4		String	RO	
7960	Alarm Log Record 5		String	RO	
7992	Alarm Log Record 6		String	RO	
8024	Alarm Log Record 7		String	RO	
8056	Alarm Log Record 8		String	RO	
8088	Alarm Log Record 9		String	RO	
Dummy Registers					
Address	Variable	Unit	Type	R/W	Comments
9000-9999	Used for customer holding registers. Can contain any data. Writable by FC16 and readable by FC03 and FC04. Will be Zeroed at power up. These registers can be logged.		any	R/W	
CoVor					
Coil #	Action	NA	Value	R/W	
0	Reset Volume Total		0xFF00	WO	
1	Reset Mass Total		0xFF00	WO	
2	Reset Forward Energy Total		0xFF00	WO	
3	Reset Reverse Energy Total		0xFF00	WO	
4	Force Write FRAM Configuration Data		0xFF00	WO	
5	Force Write FRAM Calibration. Data		0xFF00	WO	
6	Force Write FRAM Factor y Data		0xFF00	WO	
7	Clear Exception Status		0xFF00	WO	
8	Reset Meter		0xFF00	WO	

9	Reset Totals		0xFF00	WO	
10	Clear Configuration Changed Flag		0xFF00	WO	
11	Clear System Log		0xFF00	WO	
12	Clear Alarms Log		0xFF00	WO	
13	Clear Maximum Values		0xFF00	WO	
14	Initiate Meter Variables Reset		0xFF00	WO	
15	Reset Meter to Defaults		0xFF00	WO	
	Rev. 96.5 force 4-20 mA				
16	4-20 mA channel 1 ON		0xFF00	WO	
17	4-20 mA channel 2 ON		0xFF00	WO	
18	4-20 mA channel 3 ON		0xFF00	WO	
19	Scaled Frequency ON		0xFF00	WO	
CoVor DD Float Check					
Factory use special registers					
10000	D1 17+7 bytes LCD line1		BYTE	RW	
	D2 17+7 bytes		BYTE	RW	
	cursor loc <<8 + ON		Short	RW	
	time to display in ms little endian!				
	must read/write 52 bytes.				
Note 1 Explanation of Units configuration					
			0x00	0x03	MJ
			0x00	0x04	BTU
			0x00	0x05	MBTU
			0x00	0x06	MMBT
			0x00	0x07	MWHR
4005	Density		0x00	0x00	lbm/ftA ³
			0x00	0x01	kg/m ³
			0x00	0x02	gm/cc
			0x00	0x03	lbm/gal
			0x00	0x04	gm/m lit
			0x00	0x05	kg/lit
			0x00	0x06	gm/lit
			0x00	0x07	lbm/in ³
Inline Size Codes (Reg 6500)					
Code	Inline Size Code (in)				
0	12"				
1	10"				
2	8"				
3	6"				
4	4"				
5	3"				
6	2"				
7	1.5"				
8	1"				
9	¾"				
10	½"				
11	3/8"				
12	¼"				

Meter Define Flags (Reg 65200)					
Bit	Flag	Mask			
0	1-insertion, 0-inline	0x0001			
1	1-enable mass flow	0x0002			
2	1-energy meter	0x0004			
3	1-energy meter2	0x0008			
4	1-temperature 1	0x0010			
5	1-temperature 2	0x0020			
6	1-pressure	0x0040			
7	1-smooth TP	0x0080			
8	1-internal temperature	0x0100			
9	1-modbus enabled	0x0200			
10	1-hart enabled	0x0400			
11	1-three outputs	0x0800			
12	1-negative pressure AD	0x1000			
13	1-splash Covor	0x2000			
14	1-test mode	0x4000			
15	1-block low power	0x8000			



TEKMATION LLC reserves the right to change the designs and/or materials of its products without notice. The contents of this publication are the property of TEKMATON LLC and cannot be reproduced by any other party without written permission. All rights reserved. Copyright © 2015 TEKMATON LLC
DOC/TEK/TIPS/ANL/2/05/20/1300D/0.1
TEKMATION LLC





www.tek-trol.com

Tek-Trol is a fully owned subsidiary of TEKMATON LLC. We offer our customers a comprehensive range of products and solutions for process, power and oil & gas industries. Tek-Trol provides process measurement and control products for Flow, Level, Temperature & Pressure Measurement, Control Valves & Analyzer systems. We are present in 15 locations globally and are known for our knowledge, innovative solutions, reliable products and global presence.

Tek-Trol LLC

796 Tek Drive Crystal Lake,
IL 60014, USA

 +1 847-857-6076

 tekrol@tek-trol.com

 www.tek-trol.com

Flow | Level | Temperature | Pressure | Valves | Analyzers | Accessories | TekValSys