

Uploaded: 11/17/2016 12:36:59 Operator: LOI

EFM Report Information

Report Data File	C:\Users\ltrosclair\Desktop\Fisher download\80946809.efm		
Report Period	07/01/2016 to 12/22/2016	Run Selected	Meter #1
Meter Description	0000	Meter Tag	Meter #6
Report Date	12/22/2016 11:17:23	Contract Hour	10

System Parameters

Device Address	1	Device Group	2
Station Name	Test Meter	Active Meter Runs	1
Version Name - Part Number	W68123 Ver 2.15	Manufacturing ID	Fisher FCD
Time Created	Aug 24, 2010 7:00	ROM Serial Number	
Maximum Meter Runs	1	MPU Loading	25.37177
Device Type	103		

General Flow Parameters - Meter

Calculation Method	Calc Standard: 1992, AGA3 Units: English Alarming: Disabled	Calculation Method II	Fpv Method: AGA8 Gross II Heating Value Basis: Dry Atmospheric Pressure: Entered Gas Quality: Constant
Options	Pressure: Flange Tap, Upstream, Gauge Specific Gravity: Entered Heating Value Basis: Volume Heating Value: Entered Gravitational Acceleration: Calculated Log Methane Adjust: Enabled	IMP	15.0
Pipe Diameter	2.067	Pipe Reference Temperature	68.0
Pipe Material	Carbon Steel	Orifice Diameter	0.25
Orifice Reference Temperature	68.0	Orifice Material	Stainless Steel
Base or Contract Pressure	14.73	Base or Contract Temperature	60.0
Atmospheric Pressure	14.4	Specific Gravity	0.715
Heating Value	1215.0	Viscosity	0.010268
Specific Heat Ratio	1.3	Elevation	500.0
Latitude	35.0	Local Gravitational Acceleration	32.14398
Low hw Cutoff	0.25	Alarm Code	0
Low Alarm Flow	1000.0	High Alarm Flow	10000.0
Calibration Options	Pf Deadweight Calibrator: Disabled hw Deadweight Calibrator: Disabled	User Correction Factor	1.0
Calibration Weights Gravitational Acceleration	32.174		

Gas Composition (Mole %)

N2 - Nitrogen	2.3130	CO2 - Carbon Dioxide	0.1740
H2S - Hydrogen Sulfide	0.0000	H2O - Water	0.0000
He - Helium	0.0000	CH4 - Methane	97.5130
C2H6 - Ethane	0.0000	C3H8 - Propane	0.0000
C4H10 - n-Butane	0.0000	C4H10 - i-Butane	0.0000
C5H12 - n-Pentane	0.0000	C5H12 - i-Pentane	0.0000
C6H14 - n-Hexane	0.0000	C7H16 - n-Heptane	0.0000
C8H18 - n-Octane	0.0000	C9H20 - n-Nonane	0.0000
C10H22 - n-Decane	0.0000	O2 - Oxygen	0.0000
CO - Carbon Monoxide	0.0000	H2 - Hydrogen	0.0000

Calculated Factors

Flow Rate per Day	0.0	Energy Rate per Day	0.0
Flow Rate per Hour	0.0	Energy Rate per Hour	0.0
Pressure Extension	0.0	Expansion Factor	0.9990331
CdFT	0.6038067	Fn	21.13638
Fpb	1.0	Ftb	1.0

Uploaded: 11/17/2016 12:36:59 Operator: LOI

Ftf	1.0	Fgr	1.182625
Fpv	1.00428	Zs	0.9966587
Zb	0.9966587	Zf1	0.9881811
IMV	15.14295	Density	0.1787138
Reynolds Number	3734.548	Base Density	0.0547179
Fpwl - Static	1.0	Fpwl - Differential	1.0
Flow Today	0.5867838	Flow Yesterday	5.334972
Flow Month	10.54116	Flow Previous Month	0.0
Energy Today	0.7129421	Energy Yesterday	6.481991
Energy Month	12.80751	Energy Previous Month	0.0

Input Point Definition

Enable Stacked hw	Disabled	High hw Setpoint	0.0
Low hw TLP	Manual	Low hw Setpoint	0.0
hw TLP	AIN A1, EU	hw	-0.6720662
Pf TLP	AIN A2, EU	Pf - Static Pressure	32.94964
Tf TLP	AIN A3, EU	Tf - Temperature	60.0

Low DP Input Point Definition

Manual

DP Input Point Definition

Point Tag ID	Diff Pres	Units	IN H2O
Scan Period	1	Filter	3
Adjusted A/D 0%	65	Adjusted A/D 100%	23559
Low Reading EU	0.0	High Reading EU	200.0
Low Alarm EU	0.0	High Alarm EU	250.0
Low Low Alarm EU	0.0	Hi Hi Alarm EU	250.0
Rate Alarm EU	5.0	Alarm Deadband	2.0
Filtered EU Value	-0.6720662	Mode	0
Alarm Code	0	Raw A/D Input	-13
Actual Scan Time	1		

Pressure Input Point Definition

Point Tag ID	Static	Units	PSIG
Scan Period	1	Filter	3
Adjusted A/D 0%	17	Adjusted A/D 100%	3726
Low Reading EU	0.0	High Reading EU	100.0
Low Alarm EU	0.0	High Alarm EU	800.6493
Low Low Alarm EU	0.0	Hi Hi Alarm EU	800.6493
Rate Alarm EU	5.0	Alarm Deadband	2.0
Filtered EU Value	33.11151	Mode	0
Alarm Code	0	Raw A/D Input	1246
Actual Scan Time	1		

Temperature Input Point Definition

Point Tag ID	RTD	Units	Degrees F
Scan Period	1	Filter	3
Adjusted A/D 0%	6676	Adjusted A/D 100%	15068
Low Reading EU	-40.0	High Reading EU	464.0
Low Alarm EU	-40.0	High Alarm EU	464.0
Low Low Alarm EU	-40.0	Hi Hi Alarm EU	464.0
Rate Alarm EU	10.0	Alarm Deadband	5.0
Filtered EU Value	60.0	Mode	128

Uploaded: 11/17/2016 12:36:59 Operator: LOI

Alarm Code	128	Raw A/D Input	514
Actual Scan Time	1		

Uploaded: 11/17/2016 12:36:59 Operator: LOI

Periodic Volume Report

Date/Time	Flow Minutes	Avg (hw) In H2O	Avg (Pf) PSI	Avg (Tf) DEG F	Multiplier Value	Pressure Extension	Volume Accum MCF	Energy Accum MMBTU
11/15/2016 11:22	0.0000000	0.0000000	-0.0188425	60.00000	0.0000000	0.0000000	0.0000000	0.0000000
11/15/2016 12:00	0.0000000	0.0000000	-0.0969332	60.00000	0.0000000	0.0000000	0.0000000	0.0000000
11/15/2016 13:00	53.6833300	2.6014750	39.0559000	60.00000	15.1805000	11.7647400	0.1597765	0.1941284
11/15/2016 14:00	60.0000000	2.9649850	39.2693100	60.00000	15.1711900	12.5940500	0.1910436	0.2321180
11/15/2016 15:00	60.0000000	4.0764450	38.6392500	60.00000	15.1493500	14.6866100	0.2224585	0.2702870
11/15/2016 16:00	60.0000000	4.2258740	38.1304900	60.00000	15.1464000	14.8866800	0.2254864	0.2739659
11/15/2016 17:00	60.0000000	4.0785510	37.8291900	60.00000	15.1484600	14.5835700	0.2209370	0.2684385
11/15/2016 18:00	60.0000000	3.7946440	37.6659300	60.00000	15.1531600	14.0394900	0.2127439	0.2584838
11/15/2016 19:00	60.0000000	3.4319410	37.8748800	60.00000	15.1600400	13.3789300	0.2028277	0.2464357
11/15/2016 20:00	60.0000000	3.4178680	37.9186100	60.00000	15.1603500	13.3565700	0.2025018	0.2460396
11/15/2016 21:00	60.0000000	3.2190700	38.2053400	60.00000	15.1646300	13.0000500	0.1971433	0.2395290
11/15/2016 22:00	60.0000000	3.2672300	38.3123600	60.00000	15.1638000	13.1072200	0.1987402	0.2414693
11/15/2016 23:00	60.0000000	3.5993690	38.2266100	60.00000	15.1571700	13.7517900	0.2084277	0.2532396
11/16/2016 00:00	60.0000000	3.7185320	38.0741300	60.00000	15.1548200	13.9569800	0.2115200	0.2569968
11/16/2016 01:00	60.0000000	3.8120800	38.0489900	60.00000	15.1531500	14.1320800	0.2141454	0.2601866
11/16/2016 02:00	60.0000000	3.6686050	38.0681100	60.00000	15.1557600	13.8616900	0.2100959	0.2552666
11/16/2016 03:00	60.0000000	3.8911050	38.0487900	60.00000	15.1517900	14.2762300	0.2162912	0.2627938
11/16/2016 04:00	60.0000000	3.8120700	37.9816700	60.00000	15.1531000	14.1211100	0.2139882	0.2599956
11/16/2016 05:00	60.0000000	3.9970970	37.8814300	60.00000	15.1498400	14.4479800	0.2188767	0.2659352
11/16/2016 06:00	60.0000000	3.8555580	37.8769000	60.00000	15.1522900	14.1842300	0.2149341	0.2611449
11/16/2016 07:00	60.0000000	3.9756420	37.7894100	60.00000	15.1501100	14.3930900	0.2180424	0.2649215
11/16/2016 08:00	60.0000000	4.0671560	37.6748400	60.00000	15.1485000	14.5439100	0.2203132	0.2676805
11/16/2016 09:00	60.0000000	4.0797220	37.5810200	60.00000	15.1481900	14.5502600	0.2204179	0.2678078
11/16/2016 10:00	60.0000000	4.0044800	37.7420000	60.00000	15.1495800	14.4363600	0.2186956	0.2657151

Total	1313.683330						4.6194072	5.6125792

Uploaded: 11/17/2016 12:36:59 Operator: LOI

Periodic Volume Report

Date/Time	Flow Minutes	Avg (hw) In H2O	Avg (Pf) PSI	Avg (Tf) DEG F	Multiplier Value	Pressure Extension	Volume Accum MCF	Energy Accum MMBTU
11/16/2016 11:00	60.0000000	4.1827380	37.7433900	60.00000	15.1466800	14.7559300	0.2235204	0.2715772
11/16/2016 12:00	60.0000000	4.2739460	37.6431000	60.00000	15.1451800	14.8989600	0.2256472	0.2741614
11/16/2016 13:00	60.0000000	4.1363760	37.5299000	60.00000	15.1472600	14.6396400	0.2217324	0.2694049
11/16/2016 14:00	60.0000000	4.2947880	37.5429000	60.00000	15.1447600	14.9254600	0.2260556	0.2746575
11/16/2016 15:00	60.0000000	4.4856680	37.5873600	60.00000	15.1419200	15.2589000	0.2310227	0.2806925
11/16/2016 16:00	60.0000000	4.5800760	37.4017200	60.00000	15.1403300	15.3930000	0.2330665	0.2831758
11/16/2016 17:00	60.0000000	4.4132320	37.3538100	60.00000	15.1427400	15.1025300	0.2286885	0.2778566
11/16/2016 18:00	60.0000000	4.1505830	37.3404300	60.00000	15.1468900	14.6386700	0.2217412	0.2694155
11/16/2016 19:00	60.0000000	4.2372770	37.2533300	60.00000	15.1453600	14.7841200	0.2239096	0.2720501
11/16/2016 20:00	60.0000000	4.1594310	37.0836000	60.00000	15.1464200	14.6214800	0.2214655	0.2690805
11/16/2016 21:00	60.0000000	4.2543870	37.0289600	60.00000	15.1448600	14.7815100	0.2238536	0.2719821
11/16/2016 22:00	60.0000000	4.0119740	37.0101200	60.00000	15.1487600	14.3497100	0.2173853	0.2641231
11/16/2016 23:00	60.0000000	4.1238850	36.9699600	60.00000	15.1468600	14.5419800	0.2202877	0.2676496
11/17/2016 00:00	60.0000000	4.1044720	36.9512100	60.00000	15.1471900	14.5077100	0.2197240	0.2669647
11/17/2016 01:00	60.0000000	4.2549830	36.8320200	60.00000	15.1446800	14.7533700	0.2234469	0.2714880
11/17/2016 02:00	60.0000000	3.8941330	37.0515100	60.00000	15.1507800	14.1438700	0.2142884	0.2603604
11/17/2016 03:00	60.0000000	4.0730150	37.0884800	60.00000	15.1478200	14.4657100	0.2191300	0.2662429
11/17/2016 04:00	60.0000000	4.1697180	37.0172000	60.00000	15.1462000	14.6321300	0.2216044	0.2692493
11/17/2016 05:00	60.0000000	3.9791130	37.0648800	60.00000	15.1493900	14.2947500	0.2165715	0.2631344
11/17/2016 06:00	60.0000000	3.9165020	37.2420100	60.00000	15.1505800	14.2108200	0.2153068	0.2615978
11/17/2016 07:00	60.0000000	3.8759290	37.3628000	60.00000	15.1514000	14.1527500	0.2144259	0.2605274
11/17/2016 08:00	60.0000000	4.3361290	37.2000400	60.00000	15.1437600	14.9485800	0.2263605	0.2750280
11/17/2016 09:00	60.0000000	4.1863980	37.1622200	60.00000	15.1460600	14.6815500	0.2223759	0.2701867
11/17/2016 10:00	60.0000000	4.2199890	37.2005800	60.00000	15.1455700	14.7470700	0.2233614	0.2713841
Total							5.3349719	6.4819904
11/17/2016 11:00	60.0000000	4.1017700	37.4190300	60.00000	15.1477100	14.5650200	0.2206082	0.2680390
11/17/2016 12:00	60.0000000	4.3635530	37.4292500	60.00000	15.1435700	15.0294100	0.2275985	0.2765322
Total							0.4482067	0.5445712

Daily Volume Report

Date/Time	Flow Minutes	Avg (hw) In H2O	Avg (Pf) PSI	Avg (Tf) DEG F	Multiplier Value	Pressure Extension	Volume Accum MCF	Energy Accum MMBTU
11/16/2016 10:00	1313.683	3.712511	38.08153	60.00000	15.15555	13.92174	4.619407	5.612579
11/17/2016 10:00	1440.000	4.179781	37.23590	60.00000	15.14631	14.67626	5.334972	6.481991
Total							9.954379	12.094570

Alarms

Date/Time	Tag	Set/Clear	Value	Description
-----------	-----	-----------	-------	-------------

Uploaded: 11/17/2016 12:36:59 Operator: LOI

Events

Date/Time	Type	ID	Old Value	New Value	Description
11/15/2016 12:15:05		ROC			ReD < 4000
11/15/2016 11:22:27		ROC			d < 0.45in
11/15/2016 11:22:27	Initialization Sequence				
11/15/2016 11:22:27	Device Initialized From Defaults				
11/15/2016 11:22:20	FLG 1	LOI	0	5	Cold Start
11/15/2016 10:43:55	Initialization Sequence				
11/15/2016 10:43:55	All Power Removed				11/14/2016 20:52:00
11/15/2016 10:43:55	SYS 1		0	1	Force End of Day
11/14/2016 10:46:52	SYS 1		0	1	Force End of Day
11/14/2016 10:46:52	Initialization Sequence				
11/14/2016 10:46:52	All Power Removed				11/13/2016 16:53:35
11/13/2016 11:06:57	SYS 1		0	1	Force End of Day
11/13/2016 11:06:57	Initialization Sequence				
11/13/2016 11:06:57	All Power Removed				11/12/2016 17:00:02
11/12/2016 11:16:54	Initialization Sequence				
11/12/2016 11:16:54	All Power Removed				11/11/2016 18:03:51
11/12/2016 11:16:54	SYS 1		0	1	Force End of Day
11/11/2016 11:29:07	Initialization Sequence				
11/11/2016 11:29:07	All Power Removed				11/10/2016 17:00:00
11/11/2016 11:29:07	SYS 1		0	1	Force End of Day
11/10/2016 11:21:03	SYS 1		0	1	Force End of Day
11/10/2016 11:21:03	Initialization Sequence				
11/10/2016 11:21:03	All Power Removed				11/09/2016 18:15:01
11/9/2016 09:20:04	All Power Removed				11/08/2016 23:58:33
11/9/2016 09:20:04	Initialization Sequence				
11/8/2016 09:49:11		ROC			ReD < 4000
11/8/2016 09:19:05	Initialization Sequence				
11/8/2016 09:19:05	All Power Removed				11/07/2016 18:30:02
11/7/2016 11:19:04	Initialization Sequence				
11/7/2016 11:19:04	All Power Removed				11/07/2016 01:34:27
11/7/2016 11:19:04	SYS 1		0	1	Force End of Day
10/28/2016 09:15:04		ROC			ReD < 4000
10/28/2016 08:23:26	Device Initialized From Defaults				
10/28/2016 08:23:26		ROC			d < 0.45in
10/28/2016 08:23:26	Initialization Sequence				
10/28/2016 08:23:19	FLG 1	LOI	0	5	Cold Start
10/27/2016 08:15:04		ROC			ReD < 4000
10/26/2016 15:00:04		ROC			ReD < 4000
10/26/2016 12:45:04		ROC			ReD < 4000
10/26/2016 10:38:52		ROC			d < 0.45in
10/26/2016 10:38:52	Initialization Sequence				
10/26/2016 10:38:52	Device Initialized From Defaults				
10/26/2016 10:38:45	FLG 1	LOI	0	5	Cold Start
10/20/2016 08:31:51	Initialization Sequence				
10/20/2016 08:31:51	All Power Removed				10/19/2016 18:56:38
10/19/2016 11:55:28	Initialization Sequence				
10/19/2016 11:55:28	All Power Removed				10/19/2016 11:44:10

Uploaded: 11/17/2016 12:36:59 Operator: LOI

Events

Date/Time	Type	ID	Old Value	New Value	Description
10/19/2016 11:43:58	All Power Removed				10/19/2016 11:32:40
10/19/2016 11:43:58	Initialization Sequence				
10/19/2016 11:24:03	Initialization Sequence				
10/19/2016 11:24:03	All Power Removed				10/19/2016 10:06:01
10/19/2016 10:00:56	Initialization Sequence				
10/19/2016 10:00:56	All Power Removed				10/18/2016 18:29:48
10/19/2016 10:00:56	SYS 1		0	1	Force End of Day
10/18/2016 11:20:12	Initialization Sequence				
10/18/2016 11:20:12	All Power Removed				10/18/2016 11:19:50
10/18/2016 11:20:12	SYS 1		0	1	Force End of Day
10/18/2016 11:19:41	Initialization Sequence				
10/18/2016 11:19:41	All Power Removed				10/17/2016 20:11:32
10/18/2016 11:19:41	SYS 1		0	1	Force End of Day
10/17/2016 11:00:04		ROC			ReD < 4000
10/17/2016 08:13:01		ROC			d < 0.45in
10/17/2016 08:13:01	Initialization Sequence				
10/17/2016 08:13:01	Device Initialized From Defaults				
10/17/2016 08:12:54	FLG 1	LOI	0	5	Cold Start
10/13/2016 11:24:57	AGANNEW 1	ROC	0	1	Full Recalculation Flag
10/13/2016 11:24:55	FLG 1	LOI	0	1	Write to Config Memory
10/13/2016 11:24:42	AGANNEW 1	LOI		0000	Point Description
10/13/2016 09:15:04		ROC			ReD < 4000
10/13/2016 08:15:04		ROC			ReD < 4000
10/13/2016 01:15:04		ROC			ReD < 4000
10/12/2016 17:15:05		ROC			ReD < 4000
10/12/2016 13:45:04		ROC			ReD < 4000
10/12/2016 09:00:04		ROC			ReD < 4000
10/12/2016 04:00:04		ROC			ReD < 4000
10/11/2016 10:32:58		ROC			ReD < 4000
10/11/2016 10:17:54		ROC			d < 0.45in
10/11/2016 10:17:54	Initialization Sequence				
10/11/2016 10:17:54	Device Initialized From Defaults				
10/11/2016 10:17:47	FLG 1	LOI	0	5	Cold Start
10/11/2016 10:16:58	Initialization Sequence				
10/11/2016 10:16:58	Device Initialized From Defaults				
10/11/2016 10:16:58		ROC			d < 0.45in
10/11/2016 10:16:51	FLG 1	LOI	0	5	Cold Start
10/11/2016 10:14:08	Initialization Sequence				
10/11/2016 10:14:08	All Power Removed				10/11/2016 06:31:43
10/11/2016 10:14:08	SYS 1		0	1	Force End of Day
4/27/2016 08:55:07		ROC			ReD < 4000
4/27/2016 08:40:03	AGANNEW 1	ROC	0	1	Full Recalculation Flag
4/27/2016 08:40:00	FLG 1	LOI	0	1	Write to Config Memory
4/27/2016 08:39:48	AGANNEW 1	LOI		80610309	Point Description
4/27/2016 08:39:10		ROC			d < 0.45in
4/27/2016 08:39:09	Device Initialized From Defaults				
4/27/2016 08:39:09	Initialization Sequence				