Instrument Calibration / Verification Report

Project Name: Monterey One Flow Meter Calibration

Project Number: T-57306 Project Date: 1/6/25

Description:	Blanco Pump Station Flow		
Instrument Type:	FIT	Manufacturer:	Endress + Hauser
Tag Ref Number:	FIT- 171	Serial Number:	P6317D19000
Transmitter Model #:	ProMag400	Signal Output:	4-20mA HART
Process Range:	0 – 10	Instrument Span:	0-10 ft^3/s
Engineering Units:	ft^3/s	Chem Exp Date:	N/A

Simulate transmitter outputs utilizing manufacturers diagnostic tools at the specified values below. Measure output utilizing a calibrated meter and record the results below.

Simulated Value	Expected mA Output	Actual mA Output		Display - Local / SCADA		Deviation
		As Found	As Left	As Found	As Left	
0% Span (0 ft^3/s)	4.000	3.988	3.988	-3.1	-3.1	-0.08%
25% Span (2.5 ft^3/s)	8.000	7.990	7.990	1119.6	1119.6	-0.06%
50% Span (5 ft^3/s)	12.000	11.990	11.990	2241.9	2241.9	-0.06%
75% Span (7.5 ft^3/s)	16.000	15.990	15.990	3364.6	3364.6	-0.06%
100% Span (10 ft^3/s)	20.000	19.993	19.993	4486.9	4486.9	-0.04%

Comments:

**All deviations are between 'Expected mA Output' and 'Actual mA Output' (as measured with DMM in series).

As Found Local: 0.00ft^3/s Fluke 789: 3.988mA SCADA: -3.09gpm OIT -3.21gpm
As Left: Local: 0.00ft^3/s Fluke 789: 3.988mA SCADA: -3.09gpm OIT: -3.09gpm
The Transmitter was set for cubic feet per second and was converted to gpm in the PLC.
At 0 flow SCADA and the OIT both show -3.09gpm. I would recommend confirming the engineerig units is desired to be cubic feet per second. The similar flow meter at Rec Ditch engineering units are in GPM. This would allow the scale to change from 0-10ft^3 to 0-4500gpm, allowing the mA range to have a greater range in value may help to see 0 on SCADA when there is no flow. If 0 is not acheived, then I would recommend rescaling the 0 in the PLC to look at a mA value closer to the Anolog output value of this transmitter.

Fernando Blanco & Micheal Rivera — Completed By:

6-Jan-24 — Calibration Date:

Tesco Controls

Device Configuration File: Rev 7.5

File: C:\Users\fblanco\HART Configs\PROMAG _20250106_122712_Blanco_FIT-171
Tag: PROMAG
LongTag/Msg: Promag
Manufacturer: Endress+Hauser
Model: Promag 400
Device ID: 4865243
DD: \000011\1169\0801.fm8
Date (yyyy-mm-dd): 2025-01-06
Time (hr:mn:sc): 00:27:58 PM
Tech: Fernando Blanco
Notes:

Variable	Value	Units
IP address	192.168.1.212	
Default gateway	0.0.0.0	
Subnet mask	255.255.255.0	
DHCP client	Off	
DomainName 1	0	
DomainNameLength 1	0	
PrimaryNameServer	0	
MAC address	00-07-05-12-76-F9	
SecondaryNameServer	0	
WebserverAccess	0	
Web server language	English	
Login page	With header	
Web server functionality	On	
Trim	Off	
CorrGain 1	1	
CorrOffset 1	0	mA
Failure mode	Max.	
Failure current	22.50	mA
Fixed current	22.50	mA
0/4 mA value	0.000	ft³/s
20 mA value	10.000	ft³/s
Assign current output 1	Volume flow	
InputSelOffVisible 1	0	
Measured current 1	4.00	mA
Measuring mode	Forward flow	
Current span	4...20 mA US	
Status	76	
Output current 1	4.00	mA
Response time	1.0000	s
Current output 1 simulation	Off	
Value current output 1	20.00	mA
Damping output 1	1.0	s
Trim value high	20.00	mA
Trim value low	4.00	mA
Turn down	On	
Authorized user login		
Login state	Logged out	
Password	0	

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Device Configuration File: Rev 7.5

Variable	Value	Units
Checksum	0x00005a25	
Clear custody transfer logbook	Cancel	
HiLimitDays 1	31	
HiLimitHours 1	23	
Toggle DIP switch	Off	
AM/PM	AM	
Day	1	d
Entry 30 of custody transfer logbook	0	
Hour	12	h
Minute	0	min
Month	January	
Authorized user login		
Date/time		
Logbook entry	1	
Event number	0	
Event logbook	--------	
Timestamp		
Totalizer overflow	0	
Totalizer value	0.00000	
Unit totalizer	0x00 ZERO INVALID	
Year	10	
LoLimitHours 1	0	
Custody transfer locking	Defined parameters	
Custody transfer counter	0	
Timestamp last custody transfer		
Custody transfer mode	Off	
Calibration factor	1.235	
CalHiLimitDays 1	31	
CalHiLimitHours 1	23	
Calibration counter	1	
Select calibration log entry	1	
CalLoLimitHours 1	0	
AM/PM	AM	
Day	1	d
Hour	12	h
Minute	0	min
Month	January	
Timestamp	23.07.19 13:35	
Calibration date/time	23.07.19 13:35	
Year	10	
Confirm settings	No	
Plant operator	----------	
Date/time format	dd.mm.yy hh:mm	
Level of flow fluctuation	Moderate	
Calibration factor	1.000	
Nominal diameter	DN300 / 12"	
Location	----------	
Progress	100	%
Reset all totalizers	Cancel	
SDatImageAvailable	No	

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Device Configuration File: Rev 7.5

Variable	Value	Units
Display interval	5	s
Backlight	Enable	
Character test string	0123456789+-,.	
Contrast display	50	%
Display damping	0.0	s
Decimal places 1	x.xx	
Decimal places 2	x	
Decimal places 3	x.xx	
Decimal places 4	x.xx	
Header text	----------	
Value 1 display	Volume flow	
Value 2 display	Totalizer 1	
Value 3 display	None	
Value 4 display	None	
Backlight	Yes	
Display language	English	
Header	Device tag	
Format display	2 values	
Separator	.	
0% bargraph value 1	0.0000	ft³/s
100% bargraph value 1	5.3472	ft³/s
0% bargraph value 3	0.0000	
100% bargraph value 3	0.0000	
Conductivity temperature coefficient	2.10	%/K
Density calculation	Fixed value	
Assign process variable	Volume flow	
Conductivity damping	0.00	s
Temperature damping	0.00	s
Installation direction	Flow in arrow direction	
Linear expansion coefficient	-0.00020295	
Off value low flow cutoff	50	%
On value low flow cutoff	0.3003	ft³/s
Response time empty pipe detection	1.0	s
Empty pipe detection	On	
Volume flow offset	0.0000	m³/s
Volume flow factor	1.0000	
Volume flow	0.0000	ft³/s
Mass flow offset	0.0000	kg/s
Mass flow factor	1.0000	
Mass flow	0.0000	lb/min
Conductivity offset	0.0000	S/m
Conductivity factor	1.0000	
Conductivity	nan	µS/cm
Corrected volume flow offset	0.0000	Nm³/s
Corrected volume flow factor	1.0000	
Corrected volume flow	0.0000	Nl/h
Temperature offset	0.0000	K
Temperature factor	1.0000	
Temperature	nan	°F
Corrected conductivity offset	0.0000	S/m

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Device Configuration File: Rev 7.5

Variable	Value	Units
Corrected conductivity factor	1.0000	
Corrected conductivity	nan	µS/cm
Flow velocity offset	0.0000	m/s
Flow velocity factor	1.0000	
Flow velocity	0.0000	m/s
Density	1.0000	kg/l
Flow override	Off	
Pressure shock suppression	0.0	s
Reference density	1.0000	kg/l
Reference density	0.99782	kg/l
Reference temperature	68.0000	°F
Assign simulation process variable	Off	
Process variable value	0.0000	
Square expansion coefficient	-3.8436e-06	
Burst command 1	Command 2	
Burst command 2	Command 2	
Burst command 3	Command 2	
Burst mode 1	Off	
Burst mode 2	Off	
Burst mode 3	Off	
Burst variable 0	Volume flow	
Burst variable 0	Volume flow	
Burst variable 0	Volume flow	
Burst variable 1	Not used	
Burst variable 1	Not used	
Burst variable 1	Not used	
Burst variable 2	Not used	
Burst variable 2	Not used	
Burst variable 2	Not used	
Burst variable 3	Not used	
Burst variable 3	Not used	
Burst variable 3	Not used	
Burst variable 4	Not used	
Burst variable 4	Not used	
Burst variable 4	Not used	
Burst variable 5	Not used	
Burst variable 5	Not used	
Burst variable 5	Not used	
Burst variable 6	Not used	
Burst variable 6	Not used	
Burst variable 6	Not used	
Burst variable 7	Not used	
Burst variable 7	Not used	
Burst variable 7	Not used	
Max. update period	2000	ms
Max. update period	2000	ms
Max. update period	2000	ms
Min. update period	1000	ms
Min. update period	1000	ms
Min. update period	1000	ms

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Device Configuration File: Rev 7.5

Variable	Value	Units
Burst trigger level	0.00	
Burst trigger level	0.00	
Burst trigger level	0.00	
Burst trigger mode	Continuous	
Burst trigger mode	Continuous	
Burst trigger mode	Continuous	
Capture mode	Off	
Assign external process variable	HART input	
Value	0.0000	
Status	Good	
Failure mode	Alarm	
Failure value	0.00	
Timeout	5.0000	s
Burst command	Command 1	
Device ID	00000000	
Device type	00	
Manufacturer ID	00	
Slot number	1	
Altitude	0	m
Configuration counter	102	
HART date code	2009-07-20	
HART descriptor	PROMAG 400	
Device ID	0x004a3cdb	
Event category 043	Out of specification (S)	
Event category 377	Failure (F)	
Event category 938	Failure (F)	
Event category 376	Failure (F)	
Event category 937	Out of specification (S)	
Event category 962	Out of specification (S)	
Event category 832	Out of specification (S)	
Event category 833	Out of specification (S)	
Event category 531	Out of specification (S)	
Event category 834	Out of specification (S)	
Event category 835	Out of specification (S)	
Event category 441	Out of specification (S)	
Event category 442	Out of specification (S)	
Event category 443	Out of specification (S)	
Device type	0x1169	
Manufacturer ID	0x0011	
Fieldbus writing access	Read + write	
Final assembly number	0	
Latitude	0	°
Location Description	somewhere	
Location method	No fix	
Locking status	0	
Longitude	0	°
Device tag	Promag	
HART message	PROMAG 400	
No. of preambles	5	
HART address	0	

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Device Configuration File: Rev 7.5

Variable	Value	Units
Process Unit Tag	Process Unit Tag	
Assign PV	Volume flow	
Primary variable (PV)	0.000	ft³/s
Assign QV	Totalizer 3	
Quaternary variable (QV)	1180215936.000	gal (us)
Device revision	0x08	
HART revision	7	
Hardware revision	1	
Software revision	8	
Assign SV	Totalizer 1	
Secondary variable (SV)	1180215936.000	gal (us)
HART short tag	PROMAG	
Assign TV	Totalizer 2	
Tertiary variable (TV)	1180215936.000	gal (us)
External device information		
External device information		
External device information		
External device information		
External device information		
External device information		
External device information		
External device information		
External verification flags	0x00000000	
External verification flags	0x00000000	
External verification flags	0x00000000	
External verification flags	0x00000000	
External verification flags	0x00000000	
External verification flags	0x00000000	
External verification flags	0x00000000	
External verification flags	0x00000000	
Date/time (manually recorded)	00.00.00 00:00	
Date/time (manually recorded)	00.00.00 00:00	
Date/time (manually recorded)	00.00.00 00:00	
Date/time (manually recorded)	00.00.00 00:00	
Date/time (manually recorded)	00.00.00 00:00	
Date/time (manually recorded)	00.00.00 00:00	
Date/time (manually recorded)	00.00.00 00:00	
Date/time (manually recorded)	00.00.00 00:00	
Overall result	Not done	
Overall result	Not done	
Overall result	Not done	
Overall result	Not done	
Overall result	Not done	
Overall result	Not done	
Overall result	Not done	
Overall result	Not done	
External device information		
External reference voltage 1	2.5000	V
Operating time	212	
Measured values	0.0000	

Tesco Controls

Device Configuration File: Rev 7.5

Variable	Value	Units
Coil current shot time	27.3	ms
Reference electrode potential against PE	0.0	V
Noise	4.3	µV
Operating time		
Start verification	Cancel	
Output values	0.0000	
Verification ID	0	
Date/time	00.00.00 00:00	
I/O module	Not done	
Verification mode	Internal verification	
Overall result	Not done	
Sensor electronic module (ISEM)	Not done	
Sensor	Not done	
Status	Not done	
System status	Not done	
Totalizer overflow	451	
Unit	l	
Totalizer value	121933.0312	l
Calibration factor	1.23470	
Coil impedance	127.6982	Ohm
Conductivity measurement existing	Yes	
Conductivity calibration factor	0.4730	
Conductivity measurement	Off	
Conductivity	nan	µS/cm
Current difference potential	0.0280	V
Current potential electrode 1	0.5042	V
Current potential electrode 2	0.4677	V
Current gain mode	High	
Current hold voltage	11.3159	V
Current integration time	16.63	ms
Current measuring period	116.64	ms
Current potential electrode Pipe GND	0.0042	V
Current rise time	27.3122	ms
Current shot voltage	58.2750	V
Density source	Fixed density	
ECC duration	2.00	s
Electrode cleaning circuit	Off	
ECC Polarity	Positive	
ECC recovery time	60	s
ECC cleaning cycle	0.5	h
Maximum value	123.1	°F
Minimum value	55.3	°F
Electronic temperature	97.8266	°F
Measured value EPD	1556	Ohm
EPD actual value (E1)	0	Ohm
EPD actual value (E2)	0	Ohm
EPD actual value (EPD)	1555	Ohm
New adjustment	Cancel	
Progress	Ok	
EPD electrode existing	Yes	

Tesco Controls

Device Configuration File: Rev 7.5

Variable	Value	Units
Empty pipe adjust value	1000000	Ohm
Full pipe adjust value	1065	Ohm
Switch point empty pipe detection	50.0	%
Median filter depth	1	
Filtered volume flow	-0.0006	ft³/s
Fixed density	1.0000	kg/l
Flow damping	7	
Gain mode	0x8029 Undefined	
Tube inner diameter	0.3000	m
External density	0.0000	kg/l
External temperature	-459.7	°F
Integration time	16.7	ms
Measuring period	116.7	ms
Medium temperature	nan	°F
Nominal diameter	0.3000	m
PeakShotCoil	104.4829	mA
Power line current synchronisation	Synchronous	
AC mains synchronisation	Auto	
Raw volume flow	-0.0010	ft³/s
Reset min/max values	Cancel	
Response time 95 %	2.0	s
Split time	59.39	ms
Status	0x00000808	
CIP filter delimiter	Standard	
CIP filter depth	15	
Filter options	Adaptive	
Temperature source	Off	
Temperature sensor type	No	
Flow velocity	-0.0002	m/s
Zero point	-0	
ModuleInfo_ActInstance	65541	
Resource available	1	
Resource available	1	
Resource available	1	
Resource available	1	
Resource available	1	
Bootloader revision	20102	
Bootloader revision	18	
Bootloader revision	10007	
Bootloader revision	10007	
Bootloader revision	18	
Build no. software	4	
Build no. software	34	
Build no. software	0	
Build no. software	0	
Build no. software	34	
Software revision	20001	
Software revision	10402	
Software revision	10010	
Software revision	10107	

Tesco Controls

Device Configuration File: Rev 7.5

Variable	Value	Units
Software revision	10402	
Hardware revision	V1.00.00	
Hardware revision	V1.00.00	
Hardware revision	V1.00.00	
Hardware revision	V1.00.00	
Hardware revision	V1.00.00	
Module name	K323-00	
Module name	Promag W	
Module name	Proline400M IO	
Module name	A303	
Module name	V313_01	
Serial number	0157100776	
Serial number	6400381	
Serial number	0157100776	
Serial number	0156417530	
Serial number	0155473018	
PulseFrequencyState_ActInstance	1769474	
Assign flow direction check	Volume flow	
Assign flow direction check	Volume flow	
Damping output 1	0.00	s
Damping output 2	0.00	s
Failure mode	0 Hz	
Failure mode	0 Hz	
Failure frequency	0	Hz
Failure frequency	0	Hz
Assign frequency output	Off	
Assign frequency output	Off	
Maximum frequency value	12500	Hz
Maximum frequency value	12500	Hz
Measuring value at maximum frequency	0.0000	
Measuring value at maximum frequency	0.0000	
Measuring mode	Forward flow	
Measuring mode	Forward flow	
Minimum frequency value	0	Hz
Minimum frequency value	0	Hz
Measuring value at minimum frequency	0.0000	
Measuring value at minimum frequency	0.0000	
Output frequency 1	0.000	Hz
Output frequency 2	0.000	Hz
Frequency output simulation 1	Off	
Frequency output simulation 2	Off	
Frequency value 1	0	Hz
Frequency value 2	0	Hz
Assign limit	Volume flow	
Assign limit	Volume flow	
Assign diagnostic behavior	Alarm	
Assign diagnostic behavior	Alarm	
Operating mode	Pulse	
Operating mode	Pulse	
AllowedOperationModes 1	0x07	

Tesco Controls

Device Configuration File: Rev 7.5

Variable	Value	Units
AllowedOperationModes 2	0x07	
Invert output signal	No	
Invert output signal	No	
Response time	0.0000	s
Response time	0.0000	s
Failure mode	No pulses	
Failure mode	No pulses	
Assign pulse output 1	Volume flow	
Assign pulse output 2	Off	
Measuring mode	Forward flow	
Measuring mode	Forward flow	
Pulse output 1	0.000	Hz
Pulse output 2	0.000	Hz
Pulse output simulation 1	Off	
Pulse output simulation 2	Off	
Pulse value 1	0	
Pulse value 2	0	
Value per pulse	25.00000	gal (us)
Value per pulse	0.00000	
Pulse width	100.00	ms
Pulse width	100.00	ms
Failure mode	Open	
Failure mode	Open	
Switch output function	Off	
Switch output function	Off	
Switch status 1	Open	
Switch status 2	Open	
Switch output simulation 1	Off	
Switch output simulation 2	Off	
Switch status 1	Open	
Switch status 2	Open	
Switch-off delay	0.0	s
Switch-off delay	0.0	s
Switch-off value	0.0000	ft³/s
Switch-off value	0.0000	ft³/s
Switch-on delay	0.0	s
Switch-on delay	0.0	s
Switch-on value	0.8829	ft³/s
Switch-on value	0.8829	ft³/s
Assign status	Empty pipe detection	
Assign status	Empty pipe detection	
Enter access code	0	
Confirm access code		
Define access code		
ChangeLoginPasswordState 1	0x0001	
Customized	1	
Firmware version	02.00.01	
Device name	Promag 400	
Extended order code 1	5W4C3H-AAALIP5DUA1K1	
Extended order code 2	B+CBEBZ1	

Variable	Value	Units
Extended order code 3		
Order code	5W4C3H-F8R6/0	
Serial number	P6317D19000	
Device tag	Promag	
ENP version	2.02.00	
XML build number	195	
Languages supported	0x001b6ffb	
Activate SW option	9277046	
Locking status	0x0000	
Device reset	Cancel	
Reset access code	0x00	
Software option overview	0x0000c008	
Access status	Maintenance	
Active level	High	
Assign status input	Off	
Value status input	Low	
Response time status input	50	ms
Status input simulation	Off	
Input signal level	High	
StateInputAllowed	1	
Alarm delay	0	s
Clear event list	Cancel	
Status signal	OK	
Actual diagnostics	--------	
Timestamp	0d00h00m00s	
Assign behavior of diagnostic no. 302	Warning	
Assign behavior of diagnostic no. 531	Warning	
Assign behavior of diagnostic no. 832	Logbook entry only	
Assign behavior of diagnostic no. 833	Logbook entry only	
Assign behavior of diagnostic no. 834	Warning	
Assign behavior of diagnostic no. 835	Warning	
Assign behavior of diagnostic no. 962	Warning	
Assign behavior of diagnostic no. 937	Warning	
Event category 1	OK	
Timestamp	0d00h00m00s	
Event category 2	OK	
Timestamp	0d00h00m00s	
Event category 3	OK	
Timestamp	0d00h00m00s	
Event category 4	OK	
Timestamp	0d00h00m00s	
Event category 5	OK	
Timestamp	0d00h00m00s	
Diagnostics 1	--------	
Diagnostics 2	--------	
Diagnostics 3	--------	
Diagnostics 4	--------	
Diagnostics 5	--------	
Update Event	3	
Assign behavior of diagnostic no. 043	Warning	

Tesco Controls

Device Configuration File: Rev 7.5

Variable	Value	Units
Assign behavior of diagnostic no. 377	Warning	
Assign behavior of diagnostic no. 938	Alarm	
Assign behavior of diagnostic no. 376	Warning	
Assign behavior of diagnostic no. 441	Warning	
Assign behavior of diagnostic no. 442	Warning	
Assign behavior of diagnostic no. 443	Warning	
Prepare state	0	
Filter options	All	
Entries list	0	
Operating time	1805d05h08m49s	
Operating time from restart	21d22h00m10s	
Previous diagnostics	C491 Current output 1 simulation	
Timestamp	1805d05h07m09s	
Diagnostic event simulation	Off	
Diagnostic event simulation	65533	
Device alarm simulation	Off	
None	0	
Conductivity unit	µS/cm	
Corrected volume unit	Nm³	
Corrected volume flow unit	Nl/h	
Density unit	kg/l	
Mass unit	lb	
Mass flow unit	lb/min	
Temperature unit	°F	
Volume unit	gal (us)	
Volume flow unit	ft³/s	
Assign process variable	Volume flow	
Assign process variable	Volume flow	
Assign process variable	Volume flow	
Control Totalizer 1	Totalize	
Control Totalizer 2	Totalize	
Control Totalizer 3	Totalize	
Failure mode	Stop	
Failure mode	Stop	
Failure mode	Stop	
Totalizer overflow 1	118	
Totalizer overflow 2	118	
Totalizer overflow 3	118	
Preset value 1	0.00000	gal (us)
Preset value 2	0.00000	gal (us)
Preset value 3	0.00000	gal (us)
Totalizer operation mode	Net flow total	
Totalizer operation mode	Net flow total	
Totalizer operation mode	Net flow total	
Unit totalizer 1	gal (us)	
Unit totalizer 2	gal (us)	
Unit totalizer 3	gal (us)	
Totalizer value 1	215894.12500	gal (us)
Totalizer value 2	1180215936.00000	gal (us)
Totalizer value 3	1180215936.00000	gal (us)

Tesco Controls

Device Configuration File: Rev 7.5

Variable	Value	Units
Data logging control	None	
Logging delay	0	h
Filter options		
Assign channel 1	Off	
Assign channel 2	Off	
Assign channel 3	Off	
Assign channel 4	Off	
Entire logging duration	0	s
Data logging	Overwriting	
MaxTrendEntries 1	1000	
OperationHours 1	0	
Data logging status	Active	
Clear logging data	Cancel	
Logging interval	1.0	s
TrendListStatus 1	0	
TrendNextListPosition 1	0	
TrendPackageSize 1	60	
Trend storage time	0	
TrendSupportedPackageSize 1	60	
Read number of value	250	
Version 1	1	
Select antenna	Internal antenna	
Apply changes	Cancel	
Enable Broadcast SSID	Enable	
WLAN	Enable	
WLAN IP address	192.168.1.212	
WLAN availble	No	
WLAN MAC address	FF-FF-FF-FF-FF-FF	
2.4 GHz WLAN channel	6	
Security type	WPA2-PSK	
WLAN passphrase	P6317D19000	
SSID name		
Assign SSID name	User-defined	
WLAN subnet mask	255.255.255.0	
WLANPassphraseVisibile 1	Yes	
Update Time Period	00:00:00	
Device status	0x40	
Manufacturer	Endress+Hauser	
Distributor	Endress+Hauser	
Model	Promag 400	
Write protect	No	
Physicl signl code	Bell 202 current	
Loop current mode	Enabled	
Dev flags	0x00	
Device Profile	Process automation device	
Ext dev status	0x12	
Device Diagnostic Status 0	0x00	
Device Diagnostic Status 1	0x00	
I/O and Subdevice Status	0x00	
WirelessHART Status	0x00	

Tesco Controls

Device Configuration File: Rev 7.5

Variable	Value	Units
AO saturated	0x00	
AO fixed	0x04	
Response code	Success	
Num req preams	5	
Universal rev	7	
Fld dev rev	8	
Software rev	8	
Hardware rev	1	
Dev id	4865243	
Num resp preams	5	
Max dev vars	12	
Cfg chng count	102	
Tag	PROMAG	
Long tag	Promag	
Time Stamp	17:02:24	
Poll addr	0	
Message	PROMAG 400	
Descriptor	PROMAG 400	
Date	07/20/2009	
Final asmbly num	0	
Status group 0	0x00	
Status group 1	0x00	
Status group 2	0x00	
Status group 3	0x00	
Status group 4	0x00	
Status group 5	0x00	
Status group 14	0x00	
Status group 15	0x00	
Status group 16	0x00	
Status group 17	0x00	
Status group 18	0x00	
Status group 19	0x00	
Status group 20	0x00	
Status group 21	0x00	
Status group 22	0x00	
Status group 23	0x00	
Status group 24	0x00	
PV is	Volume flow	
SV is	Totalizer value 1	
TV is	Totalizer value 2	
QV is	Totalizer value 3	
Loop current	4.000	mA
AO Alrm typ	Hi	
Channel flags	0x00	
PV % rnge	0.000	%
Xfer fnctn	Linear	
PV URV	10.000	Cuft/s
PV LRV	0.000	Cuft/s
PV Snsr s/n	0	