PUMPSMART CONTROL SOLUTIONS
Warranty Registration Worksheet

PumpSmart Commissioning Process

1. **Complete the PumpSmart Warranty Registration form**

   The warrantee registration is our method for determining if an installation has been commissioned properly and to identify how an application is configured

   Completion of the first page is mandatory for the extension of the warranty to 2 years Except for the shaded boxes, all sections must be completed

   Comments to first page:

   - **Drive Configuration Code**: This code may be found on the drive manufacturer nameplate Typical examples are:

     ACS800-U1-0050-4 (ABB ACS800 50 kvA drive)
     ACH550-UH-023A-4 (ABB ACH550 15hp drive)

   - **Installation Checklist**: Refer to the configuration and installation manuals for acceptable qualities of these requirements.

   - **Electrical Checks**: All information, except meggar and operation mode, must be competed. Mega-Ohm meter checks are recommended when PumpSmart is being applied upon existing motors or if any drive faults occur during commissioning.

   The NOTES page is to be used for comments or exceptions that are not captured on the first page Space is included for sketching of the system. This is recommended, however not mandatory

   Completion of the parameter listing is recommended for later references and submittal to the customer.

   It is not necessary for PumpSmart certified personnel be present for the initial set-up/configuration of the drive. Inspection and completion of this registration is required within 20 days of initial start-up however

2. **Fax or mail to PumpSmart Control Solutions within 20 days of initial start-up:**

   PumpSmart Control Solutions
   Warranty Registration
   240 Fall Street - Main Office
   Seneca Falls, NY 13148
   Fax: 315 568 7145
   Email: pumpsmart@ittcom (Subject Line: WARRANTY REGISTRATION)

3. **Confirmation of warranty extension may be made by calling the PumpSmart Control Solutions applications group at (315) 568 4776.**

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MANDATORY PAGE

Company Name	
Address L1	
Address L2	
City / State / Zip	
Contact Name	
Telephone	

Purchased From	Sales Contact	Telephone

Product ☐ PS75	**Drive Configuration Code**	**ITT S/N**	**S/W Version:**
		Drive S/N	

Application:

Application Macro
- ☐ Single Pump Process
- ☐ Speed Control

Control Mode *(N/A Speed Control Macro)*
- ☐ Pressure
- ☐ Flow
- ☐ Level
- ☐ Other

Protection
- ☐ Pump Protect Limit
- ☐ Torque Based Pump Protection
- ☐ Secondary Protection

Control Communication
- ☐ Discrete I/O - Analog I/O
- ☐ Profibus
- ☐ Modbus/Modbus +
- ☐ Other:_____

Setpoint Control
- ☐ Keypad
- ☐ Analog Input
- ☐ Offset / Multivariable Control
- ☐ System Curve Compensation

Protection Alarm Mode
- ☐ Alarm Only
- ☐ Alarm & Control

Pump Wear Monitor
- ☐ Activated
- ☐ Not Used

Pump Information:

Manufacturer:_____ **Model Number:** _____

Installation Checklist

- ☐ Check out of direct sunlight
- ☐ Check proper ambient temperature
- ☐ Check proper grounding
- ☐ Check cable connections
- ☐ Check free flow of cooling air
- ☐ Check wire runs & conduit
- ☐ Check all mechanical connections
- ☐ Check I/O - Digital/Analog/Fieldbus
- ☐ Check motor rotation
- ☐ E-Stop/Permissive (DIIL - Jumper)

Electrical Checks

Motor Data				**Motor Cable Length** Approx:
HP	FLA	RPM	VAC	

Input Voltage @ base RPM		**Input Current @ base RPM**		**Mega-Ohm Meter Reading** Meggar type ☐ 500 V ☐ 1000 V
Phase A-B		Phase A		
Phase B-C		Phase B		
Phase C-A		Phase C		

Output Voltage @ base RPM		**Output Current @ base RPM**		**Operation Mode** ☐ DTC [Default] ☐ Scalar
Phase A-B		Phase A		
Phase B-C		Phase B		
Phase C-A		Phase C		

- ☐ Additional Notes Attached (Optional)
- ☐ Parameter Listing Attached (Optional)

Performed By	Registration Number
Customer Signature	Date

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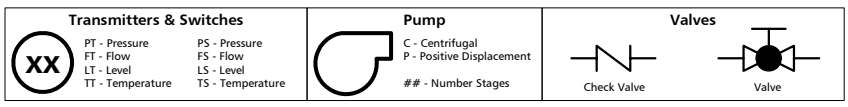
NOTES PAGE

Comments/Notes

System Sketch



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PARAMETER RECORDING PAGES

PARAMETER	DEFAULT	CURRENT
1001 EXT 1 COMMANDS	8=KEYPAD	
1002 EXT 1 COMMANDS	8=KEYPAD	
1003 DIRECTION	1=FORWARD	
1004 MOTOR JOG	DISABLED	
1103 SPD REF 1 SEL	0=KEYPAD	
1104 SPD REF 1 MIN	0	
1105 SPD REF 1 MAX	MOTOR NOM SPD	
1106 REF 2 SELECT	19-PID 1 OUT	
1107 REF 2 MIN	0	
1108 REF 2 MAX	100%	
1201 CONST SPEED SEL	9=DI3/DI4	
1202 CONST SPEED 1	MIN SPEED	
1203 CONST SPEED 2	MIN SPEED	
1204 CONST SPEED 3	MIN SPEED	
1301 MINIMUM AI1	20%	
1304 MINIMUM AI2	20%	
1401 RELAY OUTPUT 1	1=READY	
1402 RELAY OUTPUT 2	2=RUN	
1403 RELAY OUTPUT 3	4=FAULT	
1501 AO1 CONFIG	0102 SPEED	
1507 AO2 CONFIG	0104 CURRENT	
1601 RUN ENABLE	0=NOT SEL	
1602 PARAMETER LOCK	1=OPEN	
1603 PASSCODE	358	
1606 LOCAL LOCK	0=NOT SEL	
1607 PARAM SAVE	0=DONE	
1608 START ENABLE 1	0=NOT SEL	
1901 CONFIG_SPD_MIN	SPD=0	
1902 PUMP_PROTECT	DISABLED	
1903 PROTECT_LIMIT	97%	
1904 PROTECT_DELAY	0 SEC	

PARAMETER	DEFAULT	CURRENT
1905 BEP_POWER	90% OF MOT NOM POWER	
1906 PWR_OFFSET	05HP / 00KW	
1907 BEP_SPEED	MOTOR NOM RPM	
1908 MIN_FLOW_CTL	DISABLED	
1909 MIN_FLOW_TRQ	0%	
1910 DRY_RUN_CTL	DISABLED	
1911 DRY_RUN_TRQ	0%	
1912 RUNOUT_CTL	DISABLED	
1913 RUNOUT_TRQ	200%	
1914 RUNOUT_RAMP	20 SEC	
1915 CALC_TEST_TRQ		
2001 MINIMUM SPEED	25% MOT NOM SPD	
2002 MAXIMUM SPEED	MOT NOM SPD	
2102 STOP FUNCTION	1=COAST	
2202 ACCELER TIME 1	5 SEC	
2203 DECELER TIME 1	5 SEC	
2501 CRIT SPEED SEL	0=OFF	
2502 CRIT SPEED 1 LO	0	
2503 CRIT SPEED 1 HI	0	
2504 CRIT SPEED 2 LO	0	
2505 CRIT SPEED 2 HI	0	
3001 SENSOR FAILURE	3=LAST SPEED	
3002 KEYPAD FAILURE	3=LAST SPEED	
3003 SECONDARY PROT A	0=NOT SEL	
3004 SECONDARY PROT B	0=NOT SEL	
3101 ERROR RESET	0	
3103 RESET DELAY	60 SEC	
3301 PS75 VERSION		
3302 LP VERSION		
3303 TEST DATE		
3304 DRIVE RATING		

NOTE – Not all parameters may be visible PumpSmart disables parameter groups that are not applicable to the selected operating mode/macro

(1) Assumes a flowmeter with full scale range of 0-300 GPM
(2) Assumes suction side pressure gauge with full scale range of 0-300 PSIA

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PARAMETER	DEFAULT	CURRENT
3401 SIGNAL 1 PARAM	SPD(RPM)	
3408 SIGNAL 2 PARAM	EXT SPD REF	
3415 SIGNAL 3 PARAM	CURRENT	
4001 GAIN	1.0 / 25	
4002 INTEGRATION TIME	0.7 / 150 SEC	
4005 REGULATION MODE	0=NORMAL	
4006 UNITS	4=%	
4008 0% PV SCALE	0	
4009 100% PV SCALE	100	
4010 SETPOINT SEL	0=KEYPAD	
4022 SLEEP SELECTION	0=NOT SEL	

PARAMETER	DEFAULT	CURRENT
4023 PID SLEEP SPEED	0	
4024 PID SLEEP DELAY	2 SEC	
4025 WAKE –UP DEV	0	
4026 WAKE-UP DELAY	0.5 SEC	
9901 LANGUAGE	1=ENG (AM)	
9905 MOTOR NOM VOLT		
9906 MOTOR FL CURR		
9907 MOTOR NOM FREQ		
9908 MOTOR NOM SPEED		
9909 MOTOR NOM POWER		

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