Teejet 73 Series Addflow User Guide

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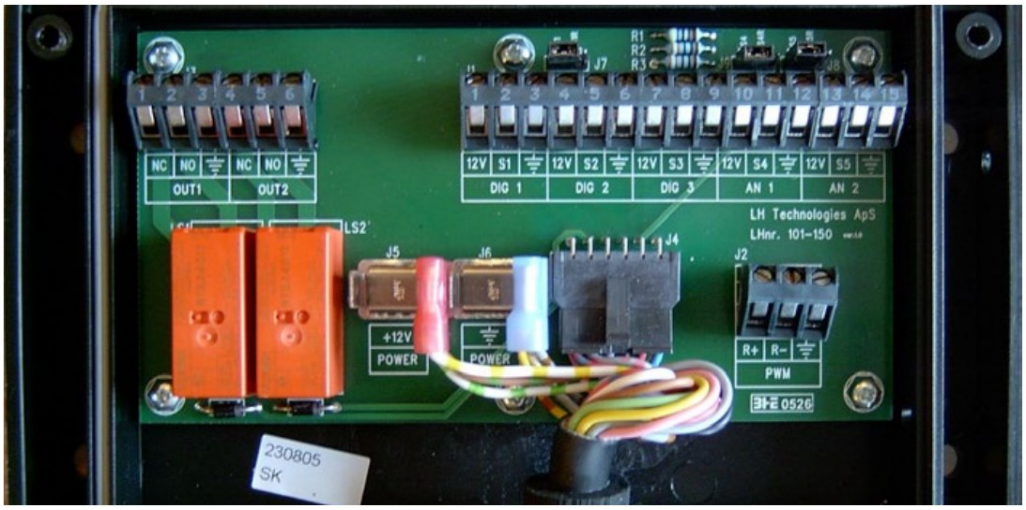
CONNECTIONS TABLE



Description		Connection
Carrier Flow Meter	Supply	12 V
	Signal	S2
	Ground	⏚
Liquid Flow Sensor	Supply (Brown)	12 V
	Signal (Black)	S4
	Ground (Blue)	⏚
Master Signal (12V is spraying)	Supply (Brown)	⏚
	Signal (Black)	S5

Jumpers	Position
J7	S1 R
J9	S4
J8	S5 if External masterS5R if always active

GENERALITIES

Function	Key	Description
1. Power On	PRO	The unit will power on and show the first working screen. inj. Rate2 .00% 
2. Power Off	↑ and ↓	The unit will power off.
3. Selection of Workin g Screen	↑ or ↓	

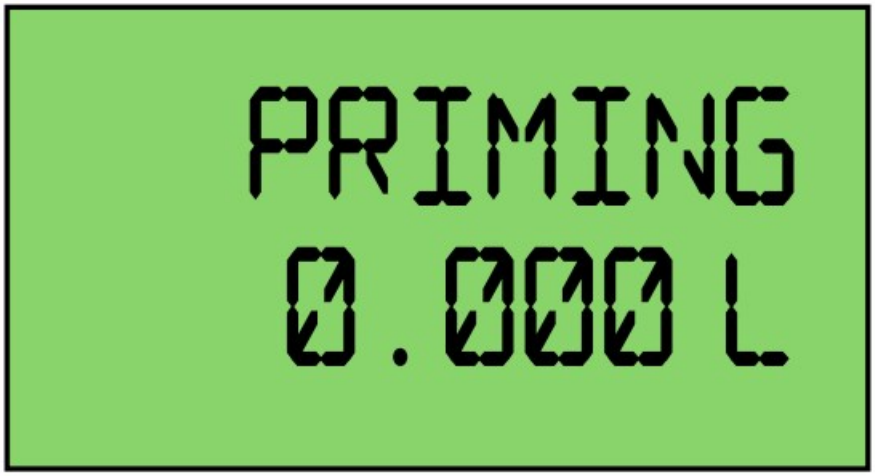
FUNCTIONALITY

Function	Display	Comments	Possible Actions
1. Injection Dose Rat e		This is the desired dose rate for the injected product. It is set as a percentage of the main carrier flow.	PRO to change dose ↑ ↓ rat eto select another display value
2. Injection Flow		This is the actual flow of injecte d product.	↑ ↓ to select another display value
3. Carrier Flow		This is the actual main carrier fl ow.	↑ ↓ to select another display value
4. Injected Volume		This is the injected volume coun ter.	↑ ↓ to select another display value CLR to clear the counter

PRIMING

To activate priming, push the Pump switch to CAL

The pump will then start running and the display will show pumped volume



When predefined volume has been injected, the display will go back to the previous working screen.

ALARMS

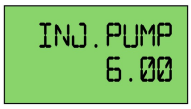
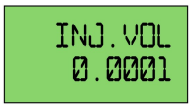
Function	Display	Comments	Possible Actions
1. Pump Not Running	PUMP STOP	Alarm message will appear when injectionstarted but the pump is not turning.	Check cabling and pump
2. No Liquid Injected	INJ. TANK EMPTY	This means that no liquid is injected. Alarm message will appear only if the liquid presence sensor is mounted.	Check plumbing and//or fill the tank.

PROGRAM

Function	Display	Possible Actions	Comments
Access/Exit		Push PRO for 3 seconds	Master must be off
1. Carrier Flow Meter	CAR.FLOW SETUP	↓ to select another step PRO to enter carrier flow meter calibration (1.1) Push PRO for 3 seconds to escape program	
1.1	CAR.FLOW 150 P/L	↑ ↓ to modify value PRO to validate value	Main carrier flow meter calibration in pulses/litre
2. Injection Pump	INJ.PUMP SETUP	↑ ↓ to select another step PRO to enter calibration (2.1) Push PRO for 3 seconds to escape program	
2.1 Injection Pump Type2.2 Injection Pump Calibration	INJ.PUMP PISTON 2	↑ ↓ to modify value PRO to validate value (2.2) to escape (2) Push PRO for 3 seconds to escape program	Choices are: • Peristaltic • Piston 1 (head) • Piston 2 (heads) • Piston 3 (heads) • Piston 4 (heads)
	INJ.PUMP PISTON 2	↑ ↓ to modify valve PRO to validate value (2) to start automatic calibration (see “7. Pump Automatic Calibration” on page 4)	This is the complete pump calibration (all heads together). Units are pulses/millilitre. Average value is 3.00 per head for a piston pump.
3. Prime Calibration	INJ.PUMP PISTON 2	↑ ↓ to select another step PRO to enter calibration (3.1) Push PRO for 3 seconds to escape program	

3.1		↑ ↓ to modify value PRO to validate value CLR to start Automatic calibration(see “8. Prime Automatic Calibration” on page 4)	This is the volume that must bepumped to prime the system.

PUMP AUTOMATIC CALIBRATION

Function	Display	Possible Actions	Comment
2.2 Injection Pump Calibration		↑ ↓ to modify value PRO to validate value (2) CLR to start Automatic calibration	This is the complete pump calibration (all heads together.) Units are pulses/millilitre. Average value is 3.00 per head for a piston pump.
2.2.1		CLR to exit Automatic calibration Push on the CAL switch on the pump to start the calibration. Collect the pumped volume. Keep the CAL switch pushed until calibration is finished.	Pump must be ready to inject (tubes filled).
2.2.2		Display shows the counted pulses from the pump	Release the CAL switch when enough pulses have been counted.
2.2.3		↑ ↓ to set the pumped volume PRO to validate	Release the CAL switch when enough pulses have been counted.

PRIME AUTOMATIC CALIBRATION

Function	Display	Possible Actions	Comments
3.1 Prime Calibration	PRIME 2.00 L	↑ ↓ to modify value PRO to validate value CLR to start Automatic calibration	This is the volume that must be pumped to prime the system.
3.1.1	START AUTOCAL	Push on the CAL switch on the pump to start the calibration. Keep the CAL switch pushed until calibration is finished.	
3.1.2	PRIMING 0.0001	Display will show injected volume. Release the CAL switch when system has been primed. PRO to validate	

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Documents / Resources

	Teejet 73 Series Addflow [pdf] User Guide 73 Series Addflow, 73 Series, Addflow