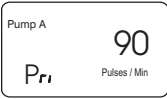
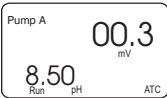
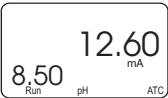
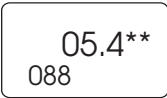
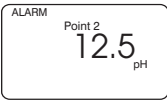
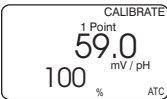
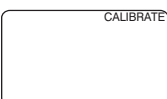


Liquitron™ DP5000 pH Controller — Programming Quick Card

MAIN KEYS

FUNCTION PRESS DISPLAY

ON/OFF					CONTROL OFF
VALUES	 OR 	INCREASE/DECREASE DISPLAY VALUES			
PRIME PUMP A -	 + 5 SEC		PRIME AT 90 SPM FOR 1 MIN *		
PRIME PUMP B -	 + 5 SEC		PRIME AT 65 SPM FOR 1 MIN *		
TIMERS			DISPLAY TIMER SETTINGS *		
PROBE READING			+ 3 SEC		+ 3 SEC 
SETUP	 + 5 SEC		ADVANCED PROGRAM MENU		
ALARMS			DISPLAY ALARM SETTINGS *		
LOCKOUT	 + 		LOCK KEYPAD / TAMPERING		
CAL INFO			DISPLAY MOST RECENT CALIBRATION		
CALIBRATE			PERFORM NEW CALIBRATION *		

*CONTROLLER MUST BE IN EDIT (OFF) MODE TO PROGRAM SETTINGS

**SOFTWARE REVISION NUMBER

ISO 9001 Certified



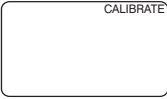
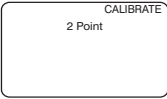
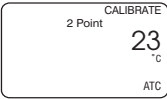
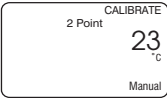
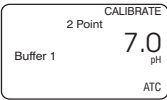
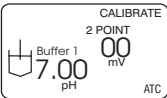
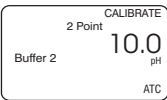
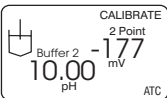
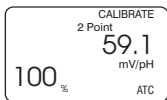
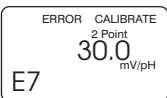
ISO 9001 Certified

Specifications subject to change without notice.

Replaces same of Rev. E 8/99
1760.F 4/2010

CALIBRATION

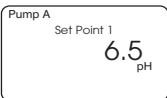
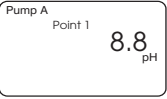
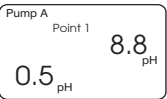
Controller in Edit (Off) Mode

FUNCTION	PRESS	DISPLAY	SCROLL
SETUP CAL	 + 5 SEC		CALIBRATE PROBE 
ENTER CAL PTS			SETS 1 OR 2 CAL POINTS 
TEMP SETTING			DISPLAYS 'ATC' OR 'MAN' TEMP 
MANUAL TEMP			ENTER PROCESS TEMP (MANUAL TEMP ONLY) 
BUFFER 1 (SET)			ENTER 1 st BUFFER pH 
BUFFER 1 (READ)			PUT PROBE IN BUFFER (LET mV VALUE SETTLE) 
BUFFER 2 (SET)			ENTER 2 nd BUFFER pH (2 PT CAL ONLY) 
BUFFER 2 (READ)			PUT PROBE IN BUFFER (2 PT CAL ONLY) 
CALCULATE READINGS			DISPLAYS CALCULATIONS 
TEST CALCULATIONS			BAD CALC Pump A 7.03 pH ATC GOOD CALC 

CALIBRATION LIMITS: SLOPE >70%
OFFSET ±30 mV (0.5 pH)

ON/OFF MODE

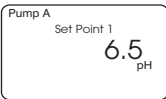
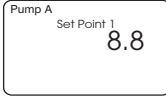
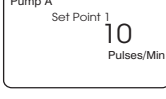
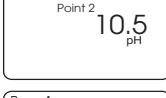
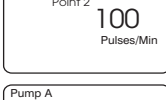
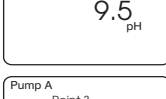
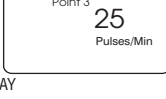
Controller in Edit (Off) Mode

FUNCTION	PRESS	DISPLAY	SCROLL
PUMP A			PUMP A PROGRAMMING
SET POINT pH			ENTER pH SET POINT 
DELAY			ENTER HYSTERESIS DELAY 

BASE PUMP B IS PROGRAMMED IN A SIMILAR WAY

PROPORTIONAL MODE

Controller in Edit (Off) Mode

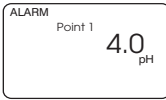
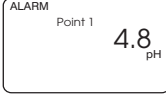
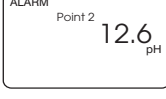
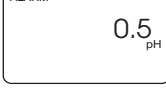
FUNCTION	PRESS	DISPLAY	SCROLL
PUMP A			PUMP A PROGRAMMING
POINT 1 pH			pH VALUE FOR POINT 1 
POINT 1 SPM			STROKES/MIN AT POINT 1 
POINT 2 pH			pH VALUE FOR POINT 2 
POINT 2 SPM			STROKES/MIN AT POINT 2 
*POINT 3 pH			pH VALUE FOR POINT 3 * 
*POINT 3 SPM			STROKES/MIN AT POINT 3 * 

BASE PUMP B IS PROGRAMMED IN A SIMILAR WAY

* POINT 3 ENABLED IN ADVANCE PROGRAMMING MENU

ALARM SETTINGS

Controller in Edit (Off) Mode

FUNCTION	PRESS	DISPLAY	SCROLL
ALARM			ALARM SETTINGS
POINT 1 pH			LOW pH ALARM POINT (Pump B) 
POINT 2 pH			HIGH pH ALARM POINT (Pump A) 
DELAY			ENTER HYSTERESIS DELAY 

ERROR MESSAGES

E1

LOW
LEVEL

E2

NO
FLOW

E3

LOW
pH

E4

HIGH
pH

E5

PUMP B
TIMER

E6

PUMP A
TIMER

E7

CAL
ERROR

E9

FAULTY
PROBE

mA SETTINGS (Optional)

Controller in Edit (Off) Mode

FUNCTION	PRESS	DISPLAY	SCROLL
READ mA	 	14.00 mA	DISPLAYS CURRENT mA VALUES ALARMS mA
POINT 1 pH	 	Point 1 0.0 pH	pH VALUE FOR POINT 1 ALARMS mA
POINT 1 mA	 	Point 1 4.0 mA	mA VALUE FOR POINT 1 ALARMS mA
POINT 2 pH	 	Point 2 14.0 pH	pH VALUE FOR POINT 2 ALARMS mA
POINT 2mA	 	Point 2 20.0 mA	mA VALUE FOR POINT 2 ALARMS mA

IF EQUIPPED WITH mA OUTPUT, THE USER WILL BE PROMPTED TO ENTER mA VALUES AFTER ALARM VALUES HAVE BEEN ENTERED

TIMER SETTINGS (Optional)

Controller in Edit (Off) Mode

FUNCTION	PRESS	DISPLAY	SCROLL
TIMERS	-TIMERS- 	Pump A 20:00 Run min sec	TIMER SETTINGS
PUMP A	 	Pump A 20:00 Run min sec	PUMP A MAX RUN TIME -TIMERS- 
PUMP B	 	Pump B 30:00 Run min sec	PUMP B MAX RUN TIME -TIMERS- 
SOLENOID	 	1 0 1:00 Delay min sec	SOLENOID TURN ON DELAY (ADV MENU OPTION) -TIMERS- 
SOLENOID	 	2 0 3:00 Delay min sec	SOLENOID RUN TIME (ADV MENU OPTION) -TIMERS- 
pH DELAY	 	00: 10 min sec pH	pH RESPONSE TIME DELAY -TIMERS- 
TEMP	 	25 °C Manual	SET BATCH / PROCESS TEMP IF NO ATC -TIMERS- 

A TIME SETTING OVER 11 HR : 01 MIN SETS NO TIME LIMIT (DISABLES TIMER)