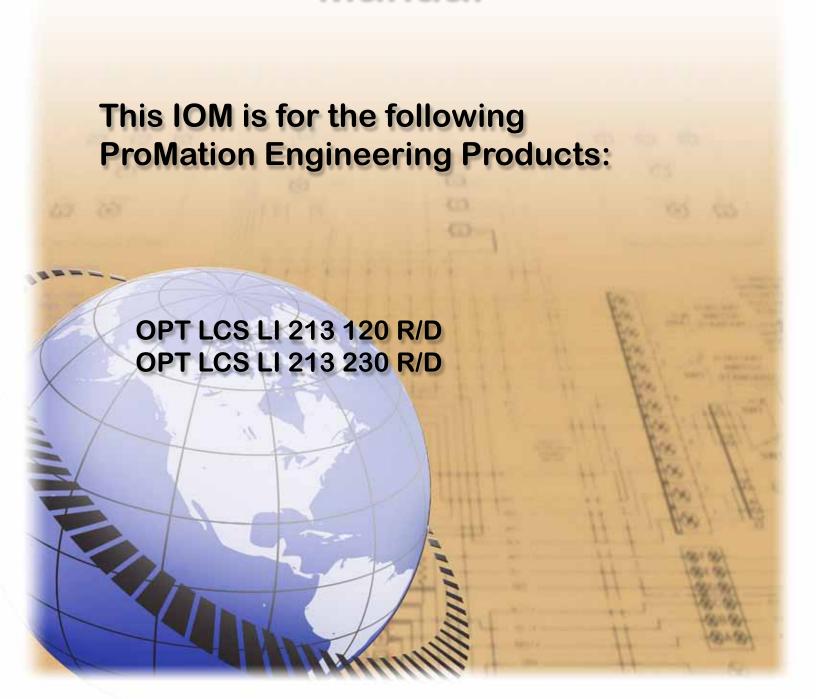


# Installation & Operation Manual







# Field Manual LCS LI-213-HV

**Local Control Station Proportional Control** 



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#### **Product Specifications:**

	Local Control Station: LI					
Torque "lb/Nm	Actuator dependent					
For Actuator Series	P2~P13					
Supply Voltage	120vac, 230vac					
Max Inrush Current	N/A					
Running Current	N/A					
Runtime (90°@60/50Hz)	Actuator dependent					
Weight	7lbs/3kg (case and components)					
Mechanical Connections	Actuator Dependent					
Electrical Entry to box	Field punched/drilled into enclosure for mounting					
Electrical Terminations	Altech terminal blocks that accept 12-16ga wire.					
Environmental Rating	NEMA 4 (Local Control Station Enclosure)					
Override	Local/Off/Remote Switch					
Control	Proportional					
Duty Cycle	Actuator Dependent					
Controller Case material	Steel					
Ambient Temperature Operating Range	-22°F to +150°F -30°C to +65°C					

#### Introduction

This document provides necessary information for set-up, calibration, testing and use of the L Series Local Control Stations for quarter-turn electric actuators. Each unit is shipped from the factory with wiring completed as shown in the Wiring Diagram and ready to be installed.

#### Safety

Safety is a basic factor any time you maintain and operate mechanical equipment. Appropriate handling methods and proper use of tools and clothes can help prevent serious accidents -- accidents which can cause injuries to you or a fellow worker. This manual was created to enable a trained user to install, adjust and troubleshoot your ProMation actuator.

Only competent and trained personnel should install, maintain and operate ProMation Local Control Stations and actuators. Any work related to this actuator must be carried out in accordance with this manual and related codes and regulations. Local workplace health and safety rules should always be followed.

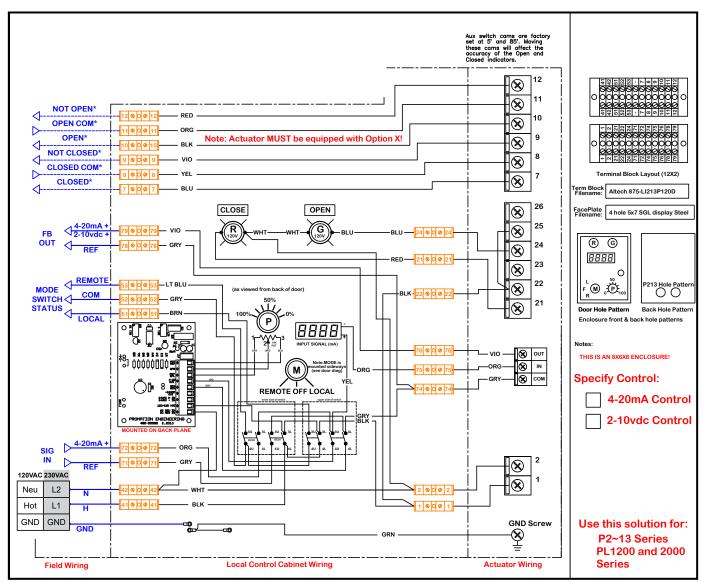


#### **Product Handling and Installation**

- 1. Storage: This unit should NOT be stored outside unless it is powered up and has proper conduit terminations. When NOT powered up, it should be stored in a clean, dry environment at all times.
- 2. Note: this enclosure must have water tight EMT fittings, with conduit drainage installed to keep it dry at the time of installation.
- 3. The switches located on the front of the enclosure do NOT function as service disconnects.
- 4. Do NOT wire multiple actuators to or from the Local Control Station.

# **Wiring Diagram**

#### **Proportional Control** =





# **Component Identification**

Controls - Front Panel

#### **CLOSED (RED) indicator**

Uses aux contacts from the actuator.
When the MODE switch is set for LOCAL or REMOTE and the actuator is fully CLOSED, this indicator will illuminate.

#### **Positioning Signal**

LCD display shows the control signal being sent to the actuator and is automatically switched to REMOTE or LOCAL signal as a function of the MODE switch.

# **OPEN (GRN) indicator**

Uses aux contacts from the actuator.
When the MODE switch is set for
LOCAL or REMOTE and the actuator is
fully OPEN, this indicator will illuminate.

#### Latch

Quarter-turn, screwdriver access. Opens cabinet door to gain access to wiring terminal blocks and actuator wiring entry.

# **Local Positioning Knob**

This weatherproof potentiometer knob controls the signal generator module inside the enclosure to generate the actuator positioning signal when the MODE switch is in the LOCAL position.



#### **MODE Switch Knob**

This selects the mode in which the actuator operates. In LOCAL mode, the front panel mounted potentiometer positions the actuator. In the REMOTE mode, the actuator positioning signal comes from the BAS or PLC system. MODE switch position has dry contacts in both active positions to allow remote monitoring of the MODE switch position.

#### **WARNING!**

The Mode switch does NOT function as a service disconnect! Power is still present inside this enclosure when the mode switch is OFF.



# **Component Identification**

LE	LF	LG	LH				
All				LI	LJ	LK	
	P1,PA,PL	P2-13	P1,PA,PL	P2-13	P1,PA, PL55, 11, 22, 44	P2-13 PL68, 12, 20	
Х	Х	Х	Х	Х	Х	Х	
Χ	Χ	X	Χ	Х	Χ	Χ	
Χ	Χ	Χ					
	Х	Х	Х	Х	Х	Х	
	Χ	X	Χ	Х	Χ	Χ	
	Х	Х	Х	Х	Х	Х	
	Χ	Χ					
			Х	Х	Х	Х	
			Х	Х	Χ	Χ	
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	X	X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	

# **Mechanical Data**

#### **Product Controls**

#### **SAMPLE DIAGRAM**

LCS shown is only a sample and may not represent all components completely.

