

Installation & Operation Manual

This IOM is for the following ProMation Engineering Products:

LCS LD-213-120 LCS LD-213-230









Contents

2	 Product Specifications:
3	 Product Handling and Installation
3	 Wiring Diagram
4	 Component Identification
	LCS Feature Selection Chart
5	 Component Identification
5	 Mechanical Data



Product Specifications:

	Local Control Station: LD-213-HV							
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	On/Off/Jog							
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.

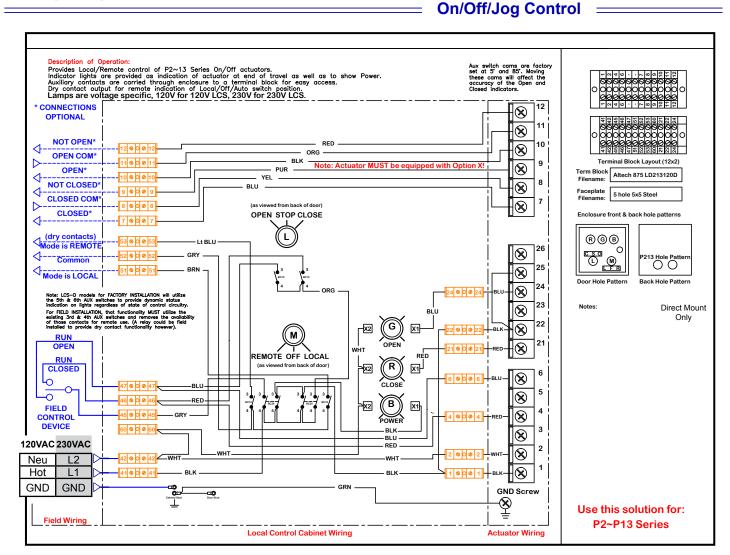
Only competent and trained personnel should install, maintain and operate ProMation Local Control Stations and actuators. Any work related to this actuator must be carried out in accordance with this manual and related codes and regulations. Local workplace health and safety rules should always be followed.



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.

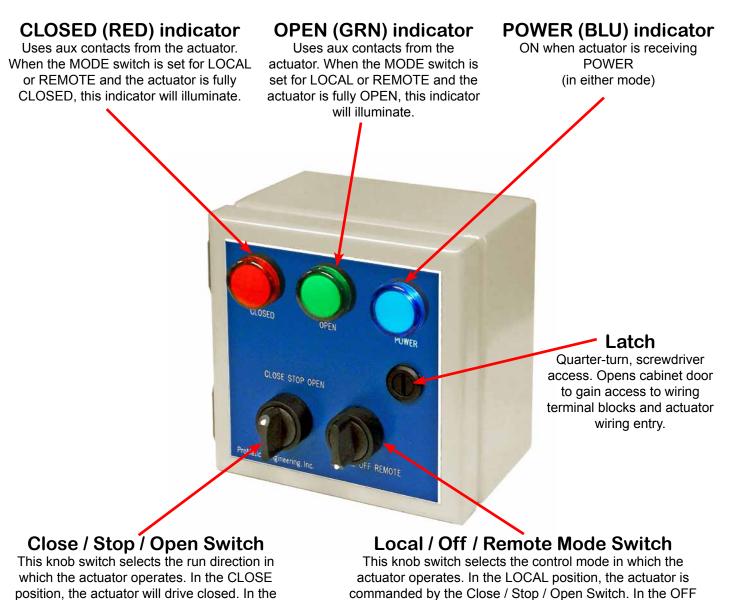
Wiring Diagram





Component Identification

Controls - Front Panel



which the actuator operates. In the CLOSE position, the actuator will drive closed. In the STOP position, the actuator stops driving. In the OPEN position, the actuator will drive open. This knob switch selects the control mode in which the actuator operates. In the LOCAL position, the actuator is commanded by the Close / Stop / Open Switch. In the OFF position, the actuator accepts no commands. In the REMOTE position, the actuator is commanded by the field control device, (typically a central control point).

WARNING!

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



FM_LCS_LA-LD-213-HV_Ver B 051916

Component Identification

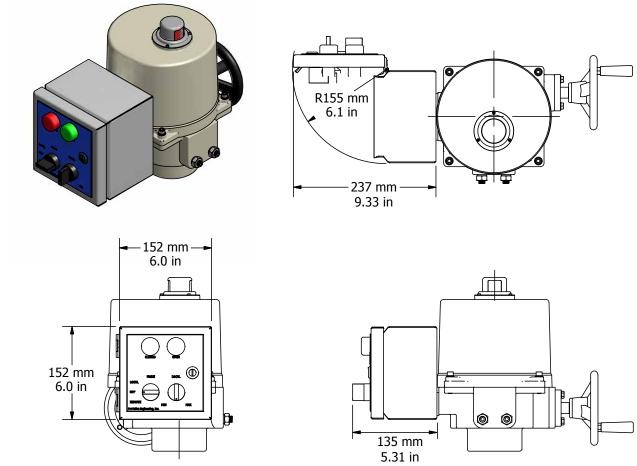
Product Controls											
LCS Model	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK
Product	All	All	All	All	All	P1,PA,PL	P2-13	P1,PA,PL	P2-13	P1,PA,PL	P2-13
For On/Off/Jog Actuators Only	Х	Х	Х	Х		· · · · · ·					
For Proportional Actuators Only					Х	Х	Х	Х	Х	Х	Х
Local/Off/Remote Mode Switch	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Close-Stop-Open Switch	Х	Х	Х	Х							
Close-Open Switch (2 Pos)					Х	Х	Х				
Close / Open Indicator Lights		Х	Х	Х		Х	Х	Х	Х	Х	Х
End of Travel (EOT) Outputs to Con	ntroller	Х	Х	Х		Х	Х	Х	Х	Х	Х
Mode Switch Position Signal to Co	ontroller		Х	Х		Х	Х	Х	Х	Х	Х
Illuminated Power Indicator				Х		Х	Х				
Full Proportional Control via Potent	iometer							Х	Х	Х	Х
LCD Display for Incoming Signal								Х	Х	Х	Х
LCD Display for Feedback Signal										Х	Х

Mechanical Data

Product Controls

SAMPLE DIAGRAM

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





Industrial Applications

ProMation Engineering actuators have been installed to operate process controls such as butterfly valves, ball valves, high performance valves, plug valves, gate valves and dampers, in a broad range of demanding industrial applications.

Power Generation



Mining

Oil and Gas

Agriculture

Chemicals



Complete Support

ProMation Engineering is committed to providing superior customer support for your sales, project management and installation teams. Contact us today.

Full Documentation

We offer complete wiring diagrams, field installation manuals and set up documentation for all our products, both in printed and digital form. We regularly host customized educational webinars for our customers.

RapidQuote

Most guotes and estimates are generated within hours of the request.

ProMation Engineering Services

ProMation Engineering can provide design and technical services for OEM's, projects with customized requirements and specialized operations.

ProMation Engineering follows a policy of continual product updates and enhancements. Our website is the best place to obtain the latest product documentation, including the wiring diagrams for these controllers. Visit us at www.promationei.com or use the code to link to the site.



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