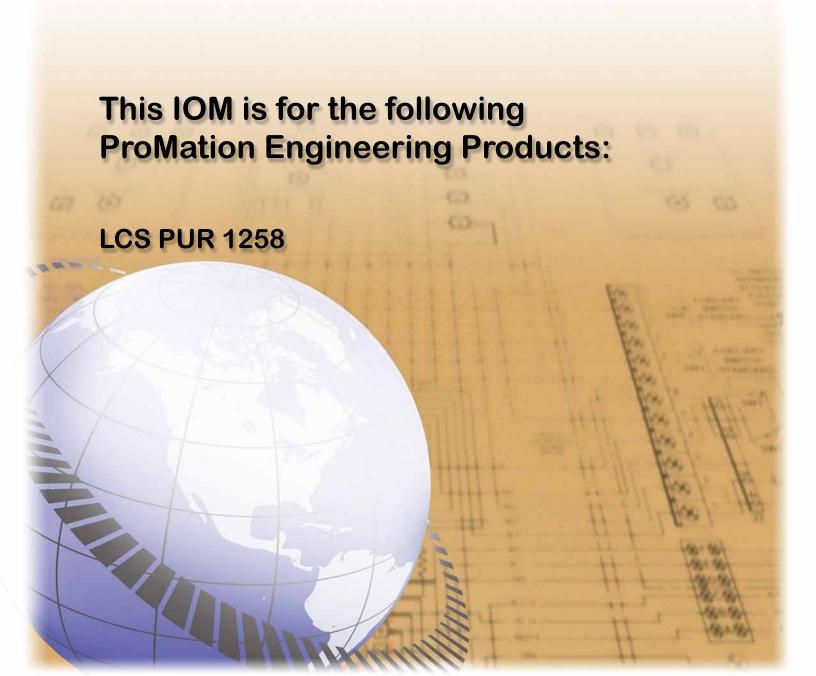


Installation & Operation Manual







Field Manual LCS PUR 1258 Proportional Control



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Product Specifications:

	Local Control Station: Custom Actuator dependent							
Torque "lb/Nm								
Supply Voltage	24vac							
Max Inrush Current	N/A							
Running Current	N/A							
Runtime (90°@60/50Hz)	Actuator dependent							
Weight	7lbs/3kg (approximately - 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.

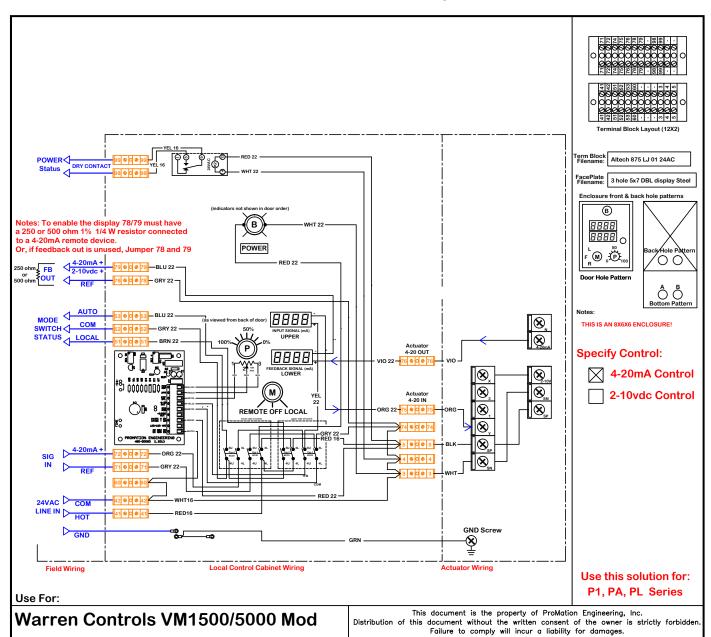


Product Handling and Installation

- 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

POWER (BLU) indicator

This indicator will illuminate when power (24vac) is being sent to the actuator and the internal control board in the LCS.

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.

Feedback Signal

LCD display shows the feedback signal being generated by the actuator. The MODE switch must be in either REMOTE or LOCAL position for this display to function.

MODE Switch Knob

thPUI (mat

FEEDBACK

10ca

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.

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.

WARNING!

The Mode switch does NOT function as a service disconnect!

Power is still present inside this enclosure when the mode switch is OFF.



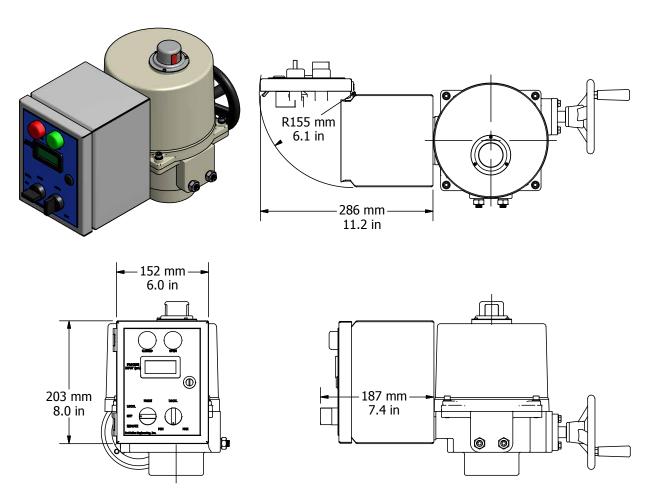
Component Identification

Product Controls				000				-			
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	Χ	Χ	Χ	Х							
For Proportional Actuators Only					Х	Х	Χ	Х	Χ	Х	Х
Local/Off/Remote Mode Switch	Χ	Χ	Χ	Х	Х	Χ	Χ	Χ	Χ	Χ	Χ
Close-Stop-Open Switch	Χ	Χ	Χ	Х							
Close-Open Switch (2 Pos)					Х	Χ	Χ				
Close / Open Indicator Lights		Χ	Χ	Х		Х	Χ	Х	Χ	Х	Х
End of Travel (EOT) Outputs to Cor	ntroller	Χ	Χ	Х		Χ	Χ	Χ	Χ	Χ	Χ
Mode Switch Position Signal to Co	ontroller		Χ	Х		Х	Χ	Х	Χ	Х	Х
Illuminated Power Indicator				Х		Χ	Χ				
Full Proportional Control via Potent	iometer							Х	Χ	Х	Х
LCD Display for Incoming Signal								X	Χ	Χ	X
LCD Display for Feedback Signal										Х	Х

Mechanical Data

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



Water Processes



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 quotes 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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