

PROMATION ENGINEERING

Precision Actuation for Industry

Installation & Operation Appendix

**This IOM is for the following
ProMation Engineering Products:**

Premium Proportional Actuators



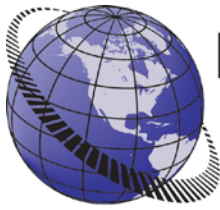
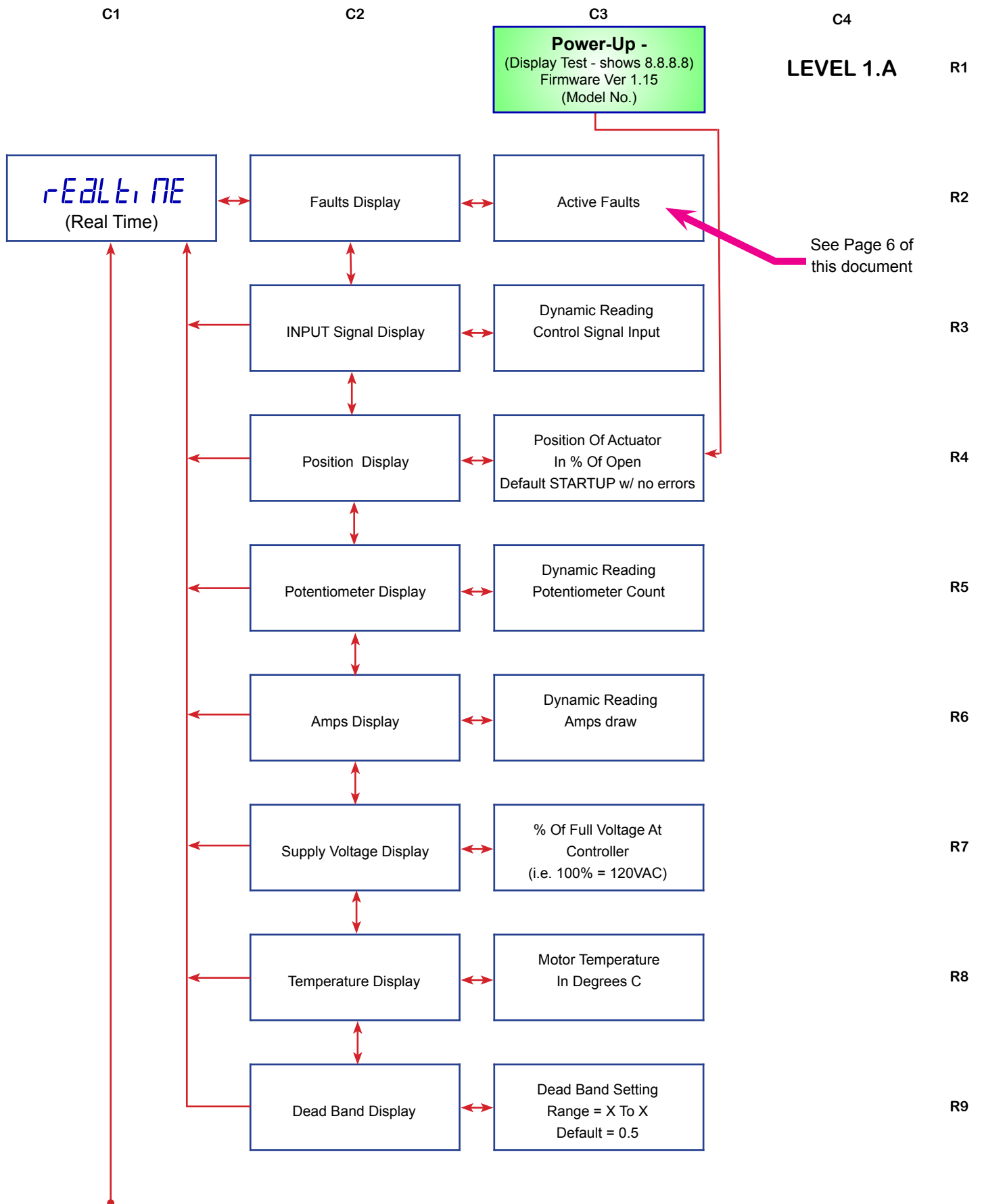


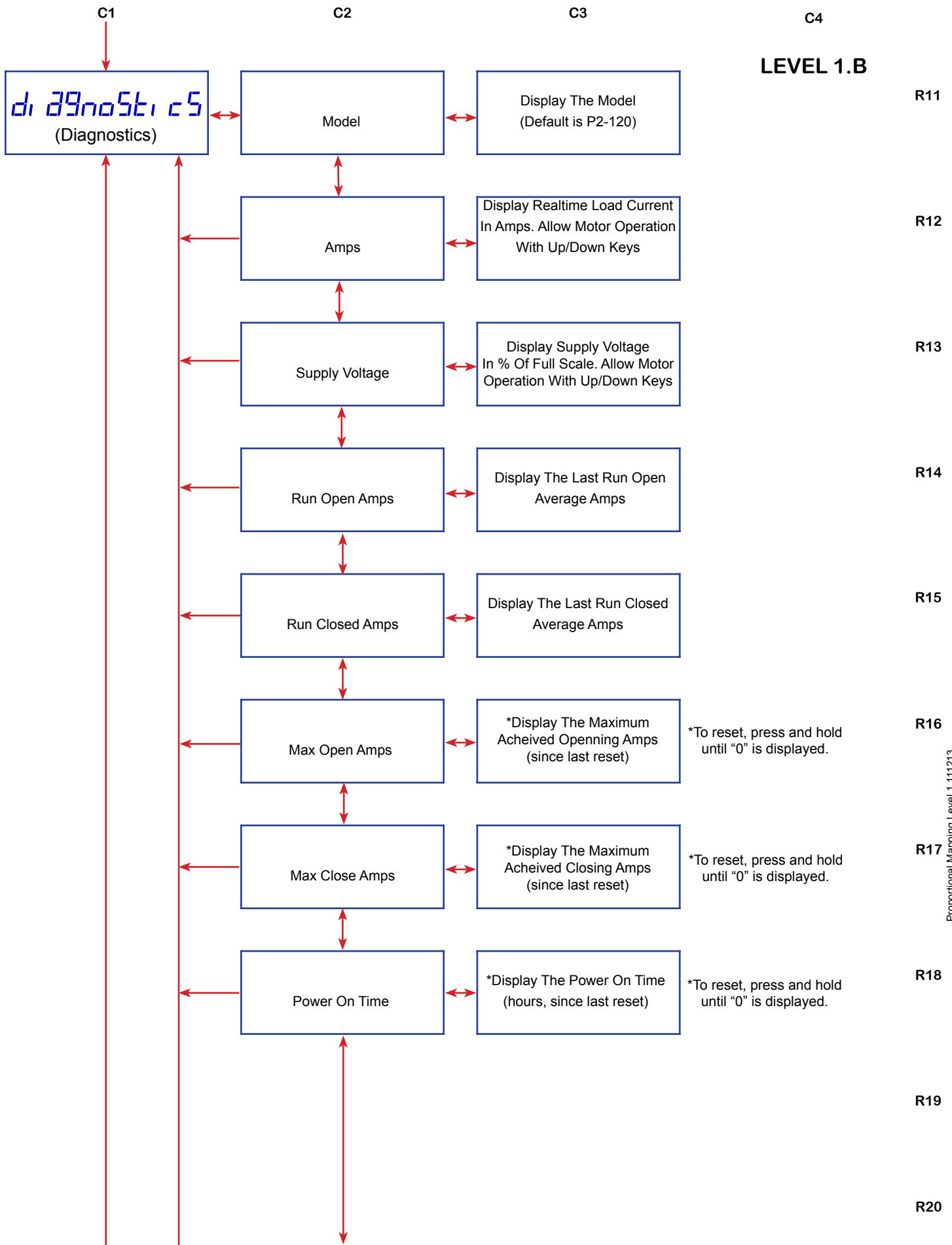
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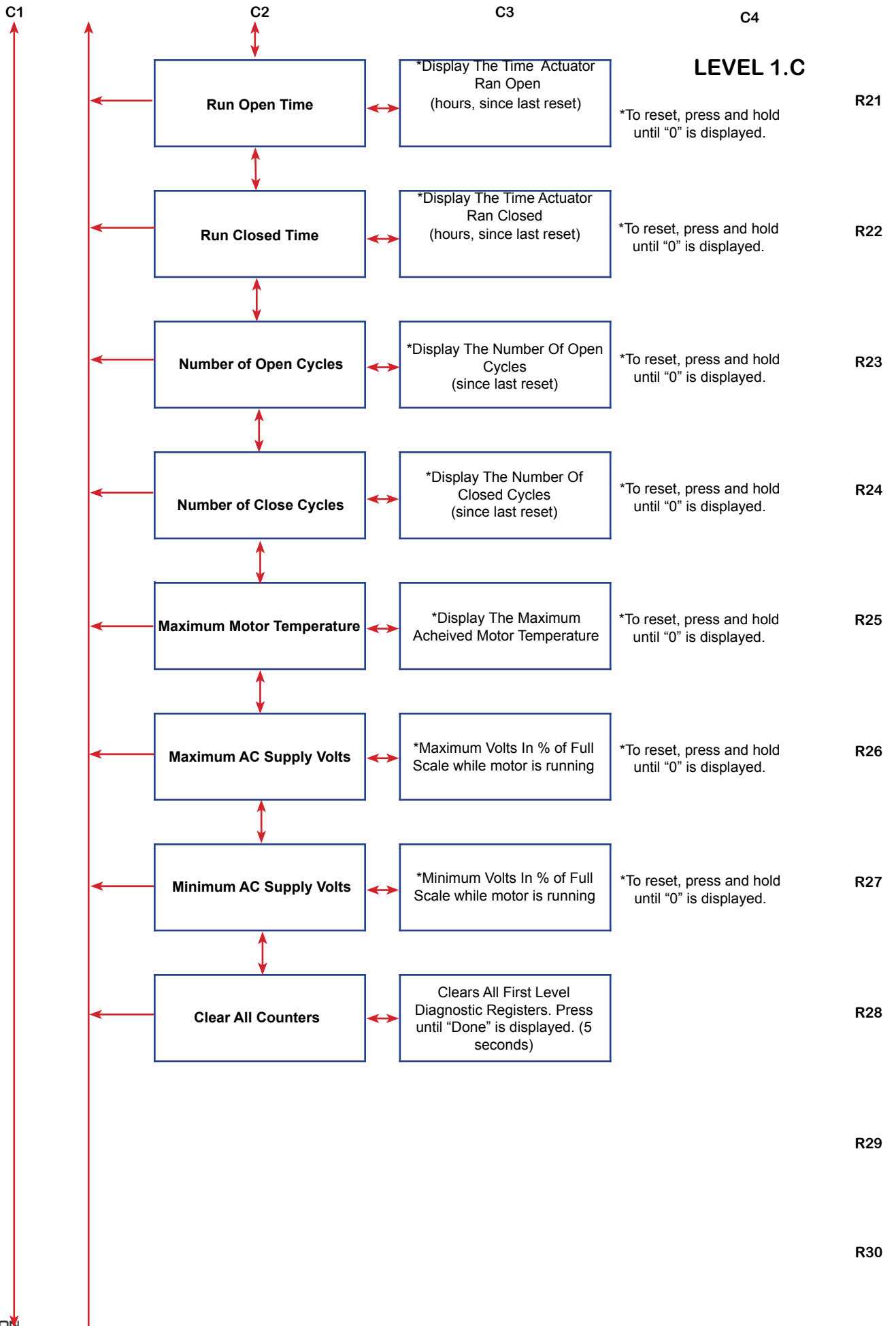
Controller Navigation Map, Level 1.A



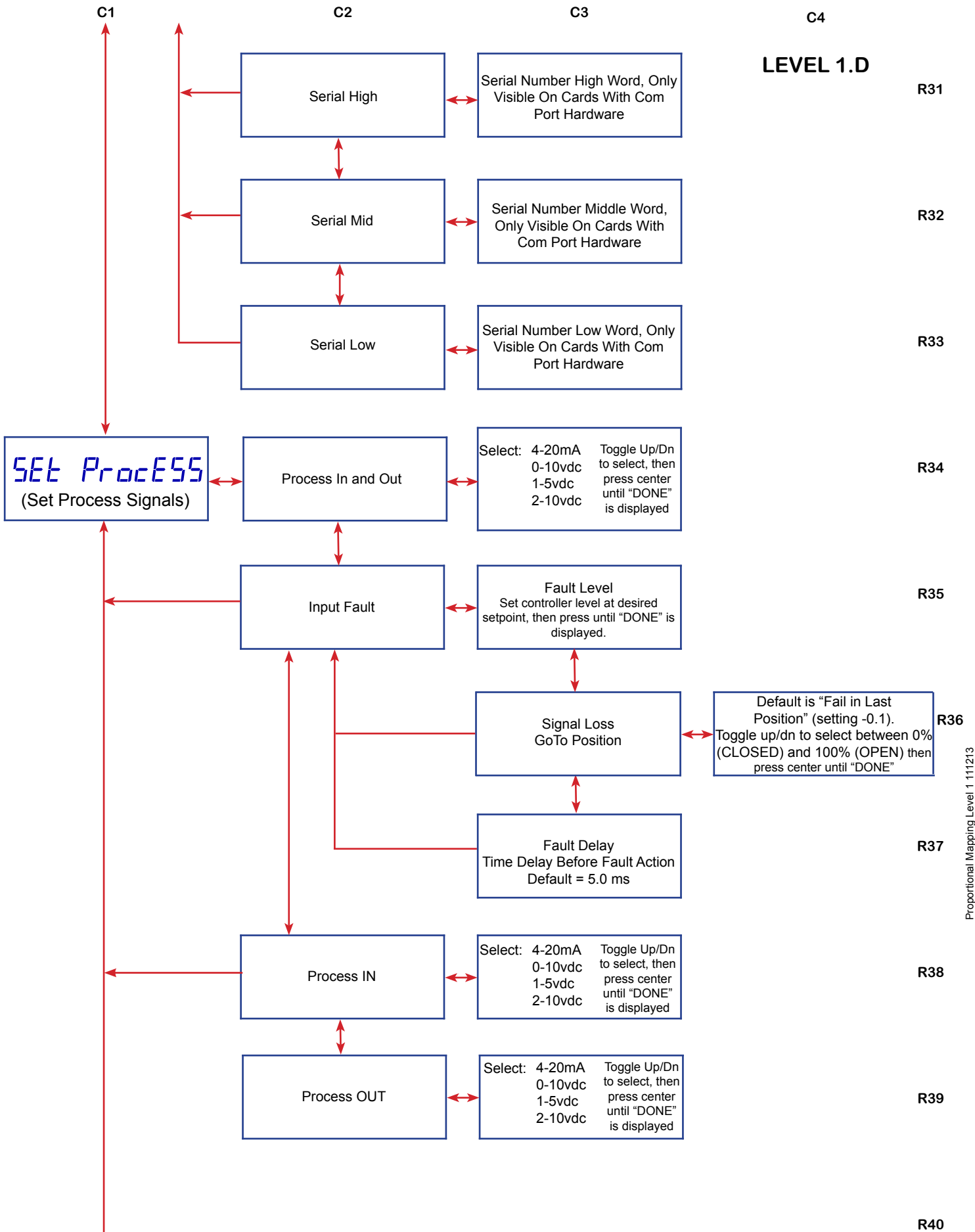
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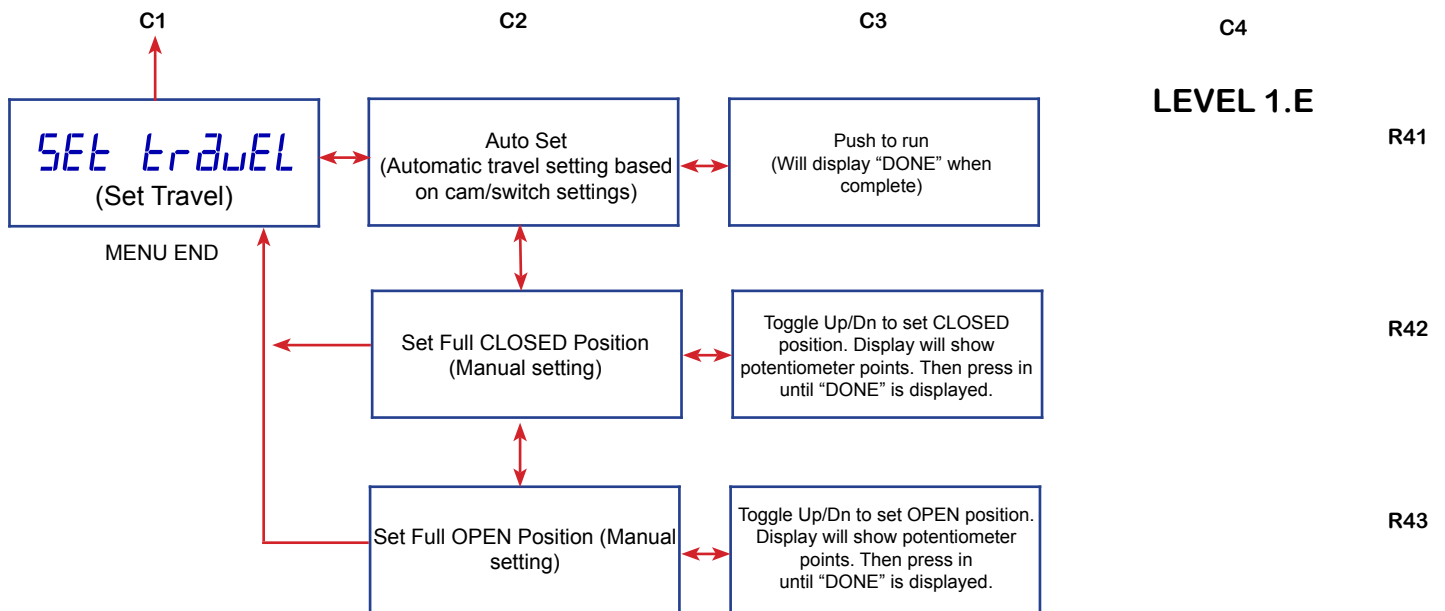
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Proportional Mapping Level 1 111213



Fault Condition Table

Fault Condition	Default Motor Setting	Option	Indicator Status on Fault	Reset / Time
Motor Over Temp (thermal cable error)	Run	Run	Flash 1Hz	Reconnect cable
Over Current	Stop	Run	Flash 1Hz	Checks every 5 sec
Low Line Voltage	Stop	Run	Flash 1Hz	Checks every 5 sec
Max Service Cycles	Run	Run	Flash 1Hz	Reset cycle count
Motor Stalled	Stop	Run	Flash 1Hz	Power Reset
Motor Too Hot	Stop	Stop (no option)	Flash 1Hz	Cool Down

Motor Over Temp is set when the thermal cable connected to the top of the drive motor has been disconnected, cut, bent, shorted to ground through an incorrect screw size, or the PCB cable land is not seated into the receiver.

Over Current is set when the motor running current exceeds that of the pre-programmed lookup table that dictates when the drive motor is working beyond its intended limits. This is indicative of an improperly sized actuator.

Low Line Voltage is set when the incoming power is more than 10% below the design voltage. Low line voltage needs to be corrected before this fault will reset.

Max Service Cycles is set when the number of CLOSED cycles exceeds the user-programmed cycle count for use in servicing and maintenance routines. This is reset in the field after maintenance has been completed.

Motor Stalled is set when the controller commands a motor move and the feedback potentiometer does not record a move. Either a motor connection is loose, or theres something stuck in the pipeline.

Motor Too Hot is set when the motor temperature (as measured by the thermal sensor) exceeds the programmed limits. The motor must be allowed to cool in order to reset the fault.

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**



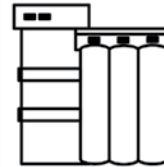
Mining



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**

Precision Actuation for Industry

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