

ProcessDefender™ Technical Comparison

The following is a feature comparison between the Load Controls PMP-25 and the ProcessDefender™.



Feature	Load Controls PMP-25	PD100	Remarks
Unit physical size	83 x 160mm	72 x 72mm	PD100 is 60% smaller than PMP-25
Display mounting arrangement	Surface mount	Panel mount	PD100 is more typical of today's instrumentation
Approved to	UL	UL, cUL, and CE	Essential for U.S., Canadian and European markets
Auto-Set function	x	✓	PD100 learns normal load and automatically sets alarm levels
Scalable 4-20mA analog output	x	✓	A small change in actual load can be scaled to a 100% change in the analog output
Number of independent alarm relays	Two	Three	Two for process alarms, one for voltage alarms
Programmable relays	x	✓	Provides control logic flexibility
Number of protection levels	Two	Four	Provides both overload and underload protection with pre-alarms
Over & under voltage alarms	x	✓	Additional protection beyond power monitoring
Event logging with time & date	x	✓	Extremely useful when analyzing alarm events
Firmware updates available to user	x	✓	Enables future features to be downloaded
Phase current readout	x	✓	Beneficial as a diagnostic tool
Pre-Alarm	x	✓	PD100 provides advanced warning of impending failure
Line voltage readout	x	✓	Beneficial as a diagnostic tool
Derives supply from motor supply	x ⁽¹⁾	✓	PMP-25 requires a transformer; PD100 does not
Electronic locking of parameters	x	✓	Prevents unauthorized adjustment
Programming assistance via QR codes	x	✓	Online videos assist in user programming
Configurable over Modbus	x	✓ ⁽²⁾	⁽²⁾ Summer 2022
Equipment runtime	x	✓ ⁽³⁾	⁽³⁾ Summer 2022

NOTE ⁽¹⁾: Most industrial pumps operate on a 3-phase 480VAC supply. For this configuration, the customer will, when installing a PMP-25, be required to supply and install a separate 120VAC control transformer.

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