
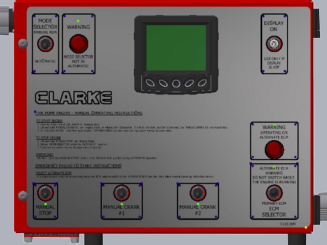




STANDARD INSTRUMENT CONTROL PANELS - TYPE 2 (IP22) RATED

COMMON FEATURES	DESCRIPTION
Construction and Environmental	<ul style="list-style-type: none"> Complies with UL 50 / 50E and NEMA "Type 2" test requirements of flame and impact resistance, provides a degree of protection against light splashing of water and ingress of foreign objects. Meets all requirements of UL 1247, FM 1333, NFPA 20. Rated to IP22 for protection against solids 1/2" in size and water sprayed 15° from vertical. Mild steel enclosure construction with "Clarke Red" powder coat finish Front hinged door for easy access to inside Tested for electromagnetic compatibility per CISPR 11 For non-hazardous, unclassified areas only
Instruction Plate	<ul style="list-style-type: none"> English language standard, optional dual language available upon request
Electrical	<ul style="list-style-type: none"> Operating voltage: 12V and 24V nominal systems
Field Wiring Connections	<ul style="list-style-type: none"> Knockouts and/or a gland plate are standard for field wiring to the panel Labeled terminal block with properly sized screws
Mounting	<ul style="list-style-type: none"> Mounted to engine via rubber isolation mounts to safeguard against vibration

CONSTRUCTION DETAILS	MECHANICALLY FUEL INJECTED ENGINES	ELECTRONICALLY FUEL INJECTED (ECM) ENGINES
Gauges	<ul style="list-style-type: none"> Analog tachometer, dual voltmeters, lube oil pressure, and coolant temperature, digital non-resettable hour meter. English and Metric units 	<ul style="list-style-type: none"> Digital diagnostic display featuring tachometer, non-resettable hourmeter, oil pressure, coolant temperature analog voltmeter for battery #1 and battery #2. English and Metric units supported. Multiple languages supported.
Controlled / Switches with Rubber Dust Boots	<ul style="list-style-type: none"> Manual / automatic Overspeed reset Crank 1 / Crank 2 Overspeed 67% test High coolant temperature alarm verify Low coolant temperature alarm verify 	<ul style="list-style-type: none"> Manual / automatic Crank 1 / crank 2 ECM selector switch Diagnostic gauge display on Throttle increase / decrease +/- 50 RPM Overspeed verify and reset Low oil pressure alarm verify High coolant temperature alarm verify Low coolant temperature alarm verify ECM failure reset Overcrank verify Soft Start (C18H0 only)
Indicating Lamps	<ul style="list-style-type: none"> Manual mode warning Overspeed alarm Flash code troubleshooting 	<ul style="list-style-type: none"> Manual mode warning Alternate ECM warning Overspeed and general fault lamps included in diagnostic display
Fire Pump Controller Terminals	<ul style="list-style-type: none"> 1, 2, 3, 4, 5, 6, 8, 9, 10, 11a & 11b, 12, 310, 311, 312 	<ul style="list-style-type: none"> 1, 2, 3, 4, 5, 6, 8, 9, 10, 11a & 11b, 301, 302, 303, 304, 305 (optional), 310, 311, 312
Other	<ul style="list-style-type: none"> Cooling loop raw water solenoid valve opens when the engine mode is switched to manual Cooling loop raw water solenoid valve opens for 1 minute after engine shut down to aid in cooling 	<ul style="list-style-type: none"> J1939 diagnostic connector ECM automatic switching upon detection of failure
Dimensions (Width x Height x Depth), Inches / Millimeters	<ul style="list-style-type: none"> 18.0 x 9.7 x 6.1 / (457 x 246 x 155) 	<ul style="list-style-type: none"> 16.3 x 12.6 x 5.6 / (413 x 320 x 143)
Instrument Panel Image		

OPTIONAL INSTRUMENT CONTROL PANELS - TYPE 4X (IP66) RATED

COMMON FEATURES	DESCRIPTION
Construction and Environmental	<ul style="list-style-type: none"> Complies with UL 50 / 50E and NEMA "Type 4X" test requirements of flame and impact resistance, provides a degree of protection against hose directed water and ingress of foreign objects. Meets all requirements of UL 1247, FM 1333, NFPA 20. Rated to IP66 for no ingress of dust or high pressure water jets Brushed 316 stainless steel enclosure construction for superior corrosion resistance Front hinged door for easy access to inside with full perimeter gasket Tested for electromagnetic compatibility per CISPR 11 For non-hazardous, unclassified areas
Instruction Plate	<ul style="list-style-type: none"> English language standard, optional dual language available upon request
Electrical	<ul style="list-style-type: none"> Operating voltage: 12V and 24V nominal systems, reverse polarity protected
Field Wiring Connections	<ul style="list-style-type: none"> Knockouts and/or a gland plate are standard for field wiring to the panel Labeled terminal block with properly sized screws
Mounting	<ul style="list-style-type: none"> Mounted to engine via rubber isolation mounts to safeguard against vibration

CONSTRUCTION DETAILS	MECHANICALLY FUEL INJECTED ENGINES	ELECTRONICALLY FUEL INJECTED (ECM) ENGINES
Gauges	<ul style="list-style-type: none"> Analog tachometer, dual voltmeters, lube oil pressure, and coolant temperature, digital non-resettable hourmeter. English and Metric units 	<ul style="list-style-type: none"> Digital diagnostic display featuring tachometer, non-resettable hourmeter, oil pressure, coolant temperature analog voltmeter for battery #1 and battery #2. English and Metric units supported. Multiple languages supported.
Controlled / Switches with Rubber Dust Boots	<ul style="list-style-type: none"> Manual / automatic Overspeed reset Crank 1 / Crank 2 Overspeed 67% test High coolant temperature alarm verify Low coolant temperature alarm verify 	<ul style="list-style-type: none"> Manual / automatic Crank 1 / crank 2 ECM selector switch Diagnostic gauge display on Throttle increase / decrease +/- 50 RPM Overspeed verify and reset Low oil pressure alarm verify High coolant temperature alarm verify Low coolant temperature alarm verify ECM failure reset Soft Start (C18H0 only)
Indicating Lamps	<ul style="list-style-type: none"> Manual mode warning Overspeed alarm 	<ul style="list-style-type: none"> Manual mode warning Alternate ECM warning Overspeed and general fault lamps included in diagnostic display
Fire Pump Controller Terminals	<ul style="list-style-type: none"> 1, 2, 3, 4, 5, 6, 8, 9, 10, 11a & 11b, 12, 310, 311, 312 	<ul style="list-style-type: none"> 1, 2, 3, 4, 5, 6, 8, 9, 10, 11a & 11b, 301, 302, 303, 304, 305 (optional), 310, 311, 312
Other	<ul style="list-style-type: none"> Cooling loop raw water solenoid valve opens when the engine mode is switched to manual Cooling loop raw water solenoid valve opens for 1 minute after engine shut down to aid in cooling 	<ul style="list-style-type: none"> J1939 diagnostic connector ECM automatic switching upon detection of failure
Dimensions (Width x Height x Depth), Inches / Millimeters	<ul style="list-style-type: none"> 16.0 x 12.0 x 6.0 / (406 x 305 x 153) 	<ul style="list-style-type: none"> 16.0 x 12.0 x 6.0 / (406 x 305 x 153)
Instrument Panel Image		

Specifications and information contained in this brochure are subject to change without notice.