

# MASTER

## DEC Series - Diesel Engine Fire Pump Controllers

MASTER LIST PRICES  
Effective: August 1, 2010

Customer Service  
(847) 295-1010  
sales@mastercontrols.com



Standard units are for 12 or 24 VDC, Negative ground, 115 or 230 VAC, 50/60 Hertz applications and suitable for energize to start or energize to stop UL/FM Listed engines. They provide brass plumbing with a 300 psi pressure transducer, remote or deluge start, sequence start, AC power fail start, automatic stop, weekly test, low fuel alarm, six pumphouse trouble alarms, and extra pump run contacts. Units feature digital voltmeters, ammeters, digital PN pressure and alarm recorder, two 10 amp battery chargers, charger failure alarms, in a NEMA 12 enclosure. Units feature 5 year limited warranty and 5K lightning gurantee.

### DIESEL CONTROLLER AND BATTERY CHARGER

Model Number	Description		List Price
DEC-12N-115-XG3	115 VAC 50/60 HZ	12 VDC, Neg Grd. - Wall mounted controller	\$9,630
DEC-24N-115-XG3		24 VDC, Neg Grd. - Wall mounted controller	\$9,850
DEC-12N-230-XG3	230 VAC 50/60 HZ	12 VDC, Neg. Grd. - Wall mounted controller	\$9,630
DEC-24N-230-XG3		24 VDC, Neg. Grd. - Wall mounted controller	\$9,850

Note: Contact factory for positive ground controllers

### CONTROLLER OPTIONS

Symbol	Description	List Price
G3(H)	Shutdown solenoid circuit (Listed Caterpillar Engines)	Standard
M	Manual, non-automatic (removes pressure transducer & adds test relay)	\$380
G3(1)	Auto-Stop with minimum run timer	Standard
2	Electric Motor Lockout (for dual drive systems)	\$750
G3(4)	Remote Start Circuit (Drop-out type circuit)	Standard
G3(5)	Power Failure Start (Adjustable up to 5 minutes)	Standard
6	For use with Gasoline or Natural Gas Engines	\$400
8	Energized to Stop with timing circuit	\$1,340
G3(9)	Sequence Starting with 300 second timer (Required on multiple pumps)	Standard

Note: Group option code G3 is standard, the options in ( ) are the option codes used on previous controller models.

### PRESSURE RECORDERS

Symbol	Description	List Price
G3(PN)	PR4001N Paperless Recorder with built-in modem, 4000 Pressure Points, 350 Alarm Points, 12 hour replaceable battery, factory installed includes Windows-based analysis/communications software (EMC certified)	Standard
G3(NT)	Network server connection to the internet via IEEE 10 base	Standard

### INDIVIDUAL REMOTE CONTACT PACKAGE

Symbol	Description		List Price
7	Failure to Start	Low Oil Pressure	\$430
	High Water Temperature	Engine Overspeed	
	Battery #1 Failure	Battery #2 Failure	
	AC or Charger Failure	Control Switch not in Auto	
	Additional Individual remote contacts. (max. 6 - see Option 0)		\$100

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**ALARMS LIGHTS AND CONTACTS**

<i>Symbol</i>	<i>Description</i>		<i>List Price</i>
Basic alarms provided as standard equipment	<b>Basic Alarms</b>		Standard
	"Switch Off" - contacts	"Engine Failure" is a group alarm which can annunciate all engine failure alarms. Alarm bell is also provided.	
	"Engine Running" - contacts "Engine Failure" - contacts & lights		
<b>Pump House Alarms - (Audible &amp; Visual, maximum of 6)</b>			
G3(0)	"Low Fuel Level"	Alarm lights are provided with one (1) SPDT group contact	Standard
	"System Over Pressure"		
	"Reservoir Level Low"		
	"Reservoir Empty"		
	"Fuel Spill"		
	"Pump Room Temp Low"		
	"Leak Detection"		
	Customer defined name (12 characters per line, 2 lines max.)		\$100
Q	Add for each individual contact for remote annunciation of above lights		\$100
G3(17A)	One Extra 10 A SPDT Engine Running Contacts (1-1 amp, 1-10 amp std.)		Standard
17B	Two Extra SPDT Engine Running Contacts		\$200

Note: Option 17A & 17B can be used as Auxiliary relays such as: Louver Operator or Crank Terminate contacts.

**ENCLOSURES**

<i>Symbol</i>	<i>Description</i>		<i>List Price</i>
G3(12)	NEMA 12 dusttight, driptight enclosure. (20 PSI direct hose spray)		Standard
3R	NEMA 3R raintight enclosure		\$410
4	NEMA 4 watertight enclosure		\$710
4XB	NEMA 4X corrosion resistant 304 ss watertight enclosure		Quote
4XC	NEMA 4X corrosion resistant 316 ss watertight enclosure		Quote
B	Adds 36 inch base	Painted	\$1,600
		Stainless Steel	Quote
L	Adds 18 inch legs	Painted	\$190
		Stainless Steel	Quote

Note: Add the "B" or "L" immediately after the enclosure option code. For example, "12" becomes "12B" or "12L"

**MISCELLANEOUS MODIFICATIONS**

<i>Symbol</i>	<i>Description</i>	<i>List Price</i>
LSC	Low Suction Cut-off chassis (includes low suction PS and Reset PB)	\$880
5C	Brass purge fittings (two 1/2" FPT bulkhead fittings for instrument air)	\$200
5D	Stainless Steel purge fittings in sizes as shown above (For NEMA 4X)	\$500
8A	Conformal coating on all printed circuit boards.	\$570
8E	CE declaration of conformity for the European Community	\$240

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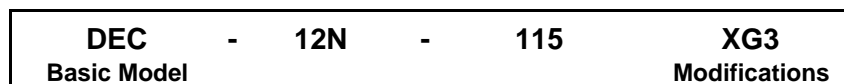
**MISCELLANEOUS MODIFICATIONS (Continued)**

<i>Symbol</i>	<i>Description</i>	<i>List Price</i>
15A	300 PSI Stainless steel pressure transducer, drain valve, and wet parts	\$1,900
16	500 PSI Pressure transducer, drain valve, and wet parts	\$1,000
19A	Engine heater supply circuit	\$180
20	Thermistat with factory installed internal strip heater	\$380
20A	Humidistat with factory installed internal strip heater	\$780
G3(21T)	Shutdown on oil and water during weekly test	Standard
32	Low Pump Room Temperature Switch. (factory installed/requires Opt "O")	\$300
G3(38D)	Status LEDs on lamp panel	Standard
83L	Low suction pressure switch	\$540
83P	System overpressure switch	\$540
83Q	Low discharge pressure switch	\$540

**DIESEL CONTROLLER ACCESSORIES**

<i>Symbol</i>	<i>Description</i>	<i>List Price</i>
4817	Low Fuel Switch (shipped loose for field installation)	\$240
4817L	Long Rod Low Fuel Switch as above (for large diameter or tall tanks)	\$310
6288	High Fuel Switch (shipped loose for field installation)	\$240

**Ordering Number Example:**



Controller with built-in Battery Charger	12 VDC, Neg. Ground	115 VAC, 50/60 HZ	Group 3 Option Package
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<b><i>When ordering a Master Fire Pump Controller, please specify the following to ensure prompt delivery</i></b>		
<b>Complete Model Number</b>	<b>Battery Voltage/Capacity/Type</b>	<b>Engine Make and Model</b>
<b>AC Line Voltage &amp; Frequency</b>	<b>Battery Polarity</b>	<b>Special Modifications</b>