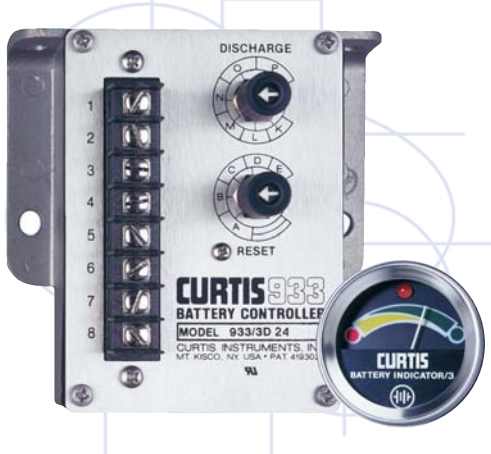




ELECTRIC "FUEL" GAUGE & BATTERY CONTROLLER

MODEL 933/3D



DESCRIPTION: Curtis Model 933/3D is a battery "fuel" gage and controller with lift lockout and adjustable reset and discharge settings. These proven instruments, with more than a half-million units installed, feature a rugged aluminum controller for reliable operation, even in the most severe conditions.

APPLICATION: The Curtis Model 933/3D prolongs battery life and protects vehicle components from the effects of deep discharge in material handling and other battery powered industrial vehicles.

FEATURES

- Flashing red LED signals "energy reserve" warning at 75% discharge.
- At 80% discharge this instrument locks out the lift coil circuit on industrial lift trucks and provides optional warning signals in other vehicles.
- If 80% discharge is reached during a lift, the lift is completed before the lift circuit is locked out.

- Recognizes improperly charged battery.
- Non-volatile memory (EEPROM) retains "state-of-charge" level memory when external power is removed.
- Adjustable reset level and discharge profile (lockout point). (Factory settings are: Reset level at 2.09VPC. Lockout at 1.73VPC).
- Controller is easy to install and mounts to body of truck with two 1/4" bolts. The gage is installed in the dash in a standard 2-1/16" round cut-out.

BATTERY CAPACITY GAUGE

13260



BATTERY CAPACITY GAUGE

1156-E2448



13210

GUARD, METER LENS



Battery Controller & Electric Fuel Gauge

933-3-12V	\$225.00
933-3-24V	\$225.00
933-3-2436V	\$240.00
933-3-36V	\$225.00
933-3-3648V	\$240.00
933-3-48V	\$225.00

Battery Controller

933-3D12	\$195.00
933-3D24	\$195.00
933-3D2436	\$205.00
933-3D36	\$195.00
933-3D3648	\$205.00
933-3D48	\$195.00

Battery Capacity Gauge

13260	\$50.00
1156-E2448	\$58.00

Guard, Meter Lens

13210	\$5.95
-------	--------

ELECTRIC "FUEL" GAUGE & BATTERY CONTROLLER CROSS REFERENCE

BAKER	CLARK	MITSUBISHI CATERPILLAR	TOYOTA
L0009460733..... 933-3-24V	2392361..... 933-3-36V	1032292..... 13260	00591-09200-81..... 933-3-24V
L0009460734..... 933-3-48V		217956..... 13260	00591-09201-81..... 933-3-3648V
L1054996001..... 13260		905159..... 13260	00591-09202-81..... 933-3-36V
	CROWN		00591-09203-81..... 933-3-48V
	111572..... 13260		00591-09206-81..... 933-3D24
BARRETT	92592..... 13260	RAYMOND	00591-09207-81..... D933-3D36
27522-005..... 933-3-12V	92593..... 933-3D24	870-221..... 13260	00591-09208-81..... 933-3D3648
27522-008..... 933-3-24V	92594..... 933-3D36	870-228-007..... 933-3D2436	00591-09209-81..... 933-3D48
27522-008A..... 933-3D24		870-229..... 13260	00591-42714-81..... 13260
27522-008B..... 13260		870-241..... 13260	
27522-009..... 933-3-12V	HYSTER	870-242..... 1156-E2448	YALE
27522-8B..... 13260	368591..... 13260		7511284-03..... 13260
	339050..... 13260	TOYOTA	7511284-04..... 933-3-24V
CLARK		00590-00524-81..... 933-3D2436	7511284-10..... 933-3-12V
2377939..... 13260	MITSUBISHI CATERPILLAR	00591-07758-81..... 13260	
2381981..... 933-3D24	1009517..... 933-3D2436		



MOTOR SPEED CONTROLLERS - 1200 SERIES

MODEL 1204/1205

DESCRIPTION: Curtis PMC Models 1204/1205 are power MOSFET electronic motor speed controllers designed to provide smooth, silent, efficient and cost effective speed, torque and braking control.



CURTIS PMC MODELS	VOLTAGE (volts)	1 min RATING (amps)	5 min RATING (amps)	1 hr RATING (amps)	VOLTAGE DROP @ 100A (volts)	UNDERVOLT CUTBACK (volts)
1204-0XX	24-36	275	275	125	0.35	16
1204-1XX	24-36	175	175	75	0.50	16
1204-4XX	36-48	275	275	125	0.35	21
1204-6XX	12	275	275	125	0.35	9
1205-1XX	24-36	400	400	175	0.25	16
1205-2XX	24-36	350	350	150	0.30	21
1205-3XX	12	400	400	175	0.25	9

MODEL 1207A

DESCRIPTION: Curtis PMC 1207A series of motor speed controllers feature a microprocessor based logic section combined with a proven MOSFET power section. The 1207A series controllers are efficient, cost effective and easy to install.



PROGRAMMABLE

CURTIS PMC MODELS	VOLTAGE (volts)	1 min RATING (amps)	5 min RATING (amps)	1 hr RATING (amps)	TYP. VOLTAGE DROP @ 100A (volts)	UNDERVOLT CUTBACK (volts)	AMBIENT TEMP. RANGE (C°)
1207A-41XX	24	250	150	100	0.35	16	-25 to 50
1207A-51XX	24	300	170	110	0.30	16	-25 to 50

MODEL 1243

DESCRIPTION: Curtis PMC Model 1243 SepEx® programmable controllers provide smooth and seamless regenerative control of separately excited motors. An advanced MOSFET power section, combined with a sophisticated microprocessor provides very high efficiency, silent operation and reduced motor and battery losses.



PROGRAMMABLE

CURTIS PMC MODEL	VOLTAGE (volts)	ARMATURE RATING* (amps)		FIELD RATING (amps)	
		2 minutes	1hr	2 minutes	1hr
1243-42XX	24-36	200	80	25	15
1243-43XX	24-36	300	100	25	15

MODEL 1244

DESCRIPTION: Curtis PMC Model 1244 SepEx™ programmable controllers provide smooth and seamless control of separately excited motors. An advanced MOSFET power section provides very high efficiency, silent operation and reduced motor and battery losses.



PROGRAMMABLE

CURTIS PMC MODEL	VOLTAGE (volts)	ARMATURE RATING* (amps)	FIELD RATING (amps)
		2 minutes	2 minutes
1244-44XX	24-36	400	60
1244-45XX	24-36	500	60
1244-46XX	24-36	600	60
1244-47XX	24-36	700	60
1244-54XX	36-48	400	50
1244-55XX	36-48	500	50
1244-56XX	36-48	600	50
1244-64XX	36-80	400	50
1244-65XX	36-80	500	50
1244-66XX	36-80	600	50



MOTOR SPEED CONTROLLERS CROSS REFERENCE

Truck Part#	Controller#	Truck Part#	Controller#	Truck Part#	Controller#	Truck Part#	Controller#	Truck Part#	Controller#
BLUE GIANT		CROWN		NISSAN		RAYMOND		TENNANT	
026-474-99	1204-014	113415	1204X-4207	29320-34K00	1244D-4476	1-187-075-004	1244C-4417	15008	1204-020
026-479-99	1204-601	115578	1205X-4420	PRIME MOVER		1-187-075-005	1244C-4507	222220	1203A-608
026-510-99	1214-8203	115937	1207-1106	1137197-002	1207-1123	1-187-076-003	1244C-4504	363553	1204-037
BIG JOE		119247-00	1207-1115	1137197-003	1207-1131	1-187-077-002	1242-4305	386302	1204-039
005467-01	1204X-1401	123812	1204X-4220	137197-005	1207-1137	1-187-078	1207A-4107	60228	1204X-4210
005467-02	1204X-4402	123812-00	1204X-4218	137197-006	1207A-4110	1-187-082	1242-4206	TOYOTA	
BAKER		123813	1205X-4420	137197-001	1207-1102	1-187-085	1214-8704	00590-40562-71	1214-8704
137648	1205-105	123813-00	1205X-4421	143850-002	1207-1124	1-187-086-001	1244-4424	00590-41752-71	1214-8704
137649	1204-013	126268-00	1207AC-6103	143850-003	1207-1129	1-187-086-002	1244-4425	YALE	
142384	1209-4602	805324	1207AC-6102	163770-001	1207A-4109	1-187-086-004	1244-4425	1500319-10	1205X-4417
142763	1209B-5502	CUSHMAN		166328-001	1243-4303	1-187-087-002	1243-4304	1665944-07	1244-4407
142764	1204-507	78005	1219-8404	169071-003	1243C-4275	1-187-088-001	1204-503	1665944-08	1244-4408
143416	1209B-4605	78005	1219-8405	169072-003	1243C-4274	1-187-089-001	1254-4505	5047857-00	1215-9101
144133	1214-8204	841344	1244-5404	169072-003	1243C-4274	1-187-093	1214-8704	5049127-00	1215-9102
144928	1221-4803	892789	1207-1128	169073-003	1243C-4374	1-187-094-001	1244-4424	5051707-00	1207AC-6104
BARRETT		893392	1207-2103	171291-001	1243C-5274	1-187-094-002	1244-4425	5183616-01	1204X-4209
27732-068	1205-111	E-Z-GO		171291-003	1243C-5274	1-187-094-003	1244-4424	5183616-02	1204X-4407
27732-070	1205-304	22717-G1	1205-112	23456-00	1204-033	1-187-094-004	1244-4425	5183616-03	1205X-4414
27732-071	1205S-4603	25864-G03	1206-1	23456-01	1204-606	1-187-095	1244-4422	5183616-04	1204X-1203
27732-077	1204-028	25864-G04	1206-002	23456-02	1205-116	1-187-098	1244-4426	5183616-05	1205X-1402
27732-078	1209B-4602	27937G01	1205X-4408	23456-03	1205-306	1-187-099	1214-8704	5183616-06	1205X-1402
27732-079	1209B-4604	73060-G01	1205-117	27325-01	1204X-4205	1-187-100	1214-8704	5183616-07	1205X-4413
27732-081	1205X-4418	73098G02	1264-5405	305878-000	1242-4204	1-187-101	1214-8704	5183616-08	1204X-4214
CLUBCAR		73144-G01	1206SX-002	305878-001	1242-4304	850-900-038	1204-205	5183616-09	1204X-4408
1014749	1204-015	73144-G03	1206SX-003	306777-003	1244-4404	TAYLOR DUNN		5183616-11	1204X-1204
1016674	1205-113	73144-G04	1206SX-004	306777-004	1244-4404	4-058-78	1205-118	5183616-12	1205X-1405
1017209	1205-209	73144-G06	1206SX-005	307260-000	1242-4205	62-204-00	1204-021	5183616-13	1205X-4416
1018008	1204-408	73233-G01	1205-210	308411-001	1244C-4406	62-204-10	1204X-4211	5241355-90	1215-9103
1018402-01	1204-410	73263G01	1206MX-1111	309659-001	1244C-4506	62-204-40	1204S-4402	5241414-52	1297-2402
1018402-02	1204-411	73326G01	1206MX-1112	309807-000	1244-4416	62-205-00	1205-108	5241414-53	1297-2403
1018402-03	1204-412	73326G02	1206MX-1114	311468-000	1242-4209	62-205-00	1205-108	5241460-44	1297-2404
101956501	1510-5201	73326G04	1206MX-1115	311469-000	1242-4210	62-205-20	1205-207	5241460-45	1297-1405
CLARK		HYSTER		RAYMOND		62-205-30	1205X-4601	5241460-46	1297-2405
2819388	1244-4413	2307947	1205X-4402	1-187-007-001	1242-4301	62-205-40	1209B-4603	5241487-83	1297-2406
CROWN		826156	1205-303	1-187-049	1204-019	62-209-70	1209-6404	5241508-26	1297-2407
110612	1205X-4407	MULITON		1-187-067	1204X-4203	62-215-00	1215-8302	8008260-68	1205-114
		8550815	1204-029	1-187-068	1207-1105	62-221-00	1221-7404	8008261-55	1204-602
				1-187-070	1204X-4215	62-221-10	1221-5705		
				1-187-074	1214-8704	62-231-00	1231-7703		

MOTOR SPEED CONTROLLERS - PRICING

****NO CORE / NO CORE CHARGE****
****CONTROLLERS SOLD OUTRIGHT****

Remanufactured by CURTIS INSTRUMENTS	Remanufactured by CURTIS INSTRUMENTS	Remanufactured by CURTIS INSTRUMENTS	BRAND NEW
1203	1206	1244	1204-004
1204	1207	1254	1204X-4201
1204X	1208	1264	1204X-4402
1205	1209	1297	1205-105
1205X	1214		1205X-4421
1206SX	1242		1207-1101
1206MX	1243		1207A-4101
			1244-4451
130.00	110.00	275.00	285.00
135.00	145.00	250.00	410.00
185.00	120.00	340.00	410.00
195.00	370.00	185.00	410.00
225.00	240.00		485.00
130.00	175.00		295.00
130.00	175.00		250.00
			485.00



HANDHELD PROGRAMMER/CABLE KIT

1311-MP-1101

\$350⁰⁰



DESCRIPTION: The Curtis Model 1311 LP Handheld Programmer simplifies the programming, testing and diagnosing of Curtis Speed Controllers and Auxiliary Devices.

APPLICATION: The Curtis Model 1311 LP Handheld Programmer provides a simple and intuitive interface to Curtis products for testing, diagnostics and parameter adjustments.

FEATURES

- Compatible with all Curtis speed controllers and auxiliary devices.
- Backward compatible to the Curtis Model 1307 Programmer.
- Easy menu navigation with clear and intuitive parameter organization.
- Inc/dec key for real-time adjustment of parameters.
- Read and clear fault history, monitor real-time data and perform tests.
- Bookmark keys facilitate fast swapping between three user selected menus.

- Detail Screen shows units, min/max ranges and bargraph.
- Allows cloning of parameter settings between controllers.
- Graphic LCD can display up to seven lines of information.
- Restricted data is controlled by four access levels: OEM, Dealer, Service and User.
- Cable options to interface with all Curtis controllers: Molex, Conxall and RJ11.

enGage™ II DIGITAL INSTRUMENTS

MODEL 3000

DESCRIPTION: The Curtis enGage™ II is a dual function, microprocessor based instrument that can be factory or user defined to monitor various functions including fuel, temperature, pressure, voltage, battery state of charge and maintenance/status.

APPLICATION: Industrial and commercial vehicles including: material handling, outdoor power and construction equipment, engine driven stationary devices, commercial cleaning equipment, golf / light-on-road and other mobility aids. Also ideally suited for monitoring scheduled maintenance, warranty and leasing intervals.

FEATURES

- Multiple functions in one programmable unit.
- Field programmable maintenance monitor allows dealers and/or users to program maintenance intervals for their specific application.
- Optional settable hour meter allows replacement of a failed hour meter without loss of total elapsed time.
- Flexible output modes include flashing LCD segments, panel mounted LED and FET (0.5A) which allows the equipment designer to define critical parameters and to choose appropriate notification methods, such as alarms or buzzers.

- True Curtis battery monitoring technology means proven algorithm protection capabilities providing reliable state of charge information.
- Clock function allows vehicle operator easy and safe access to time of day status.
- Mounting bracket and integrated connector lowers installation and production costs and eliminates traditional mounting hardware kits.
- EEPROM non-volatile memory retains usage data without battery back-up.
- Reliable, all solid state design means no moving parts minimizing warranty costs.



3002R-57X-0001

12-48 Volt - BDI/Hourmeter
Molex Connector

\$88⁰⁰

3003R-57X-0001

12-48 Volt - BDI/Hourmeter
Amp Connector

\$88⁰⁰

3003R-67X-0001

12-48 Volt - Maintenance Monitor
Amp Connector

\$78⁰⁰



INSTALLATION KIT

17631800-01 (AMP)
17631800-02 (MOLEX)

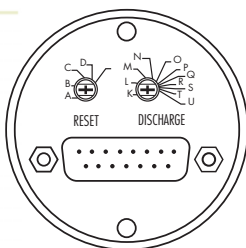
\$19⁰⁰

CURTIS UNIGAUGE

MODEL 933

DESCRIPTION: Curtis Model 933 combines in one instrument a completely solid state battery discharge indicator, an LCD hour meter and lift lockout, housed in a 52mm case. Void of moving parts, this combination instrument is exceptionally reliable even in severe operating environments.

APPLICATION: Model 933 is a combination gage ideally suited for electrically powered vehicles.



CROSS REFERENCE

HYSTER		YALE	
2311536	933-1C1224	5189666-03	933-1C1224
2311940	933-1C243648	5189666-01	933-1C243648

933-1C1224
933-1C243648

\$194⁰⁰



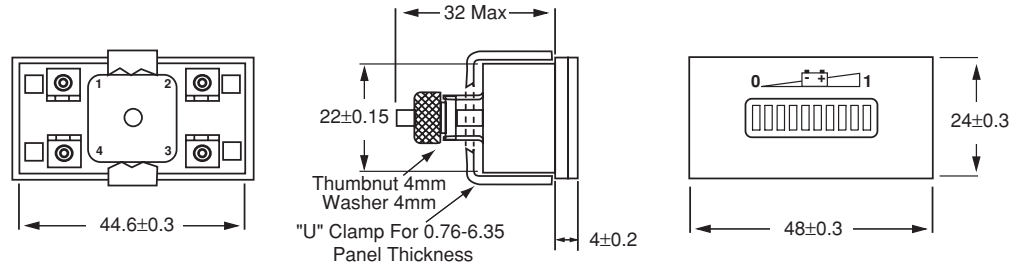
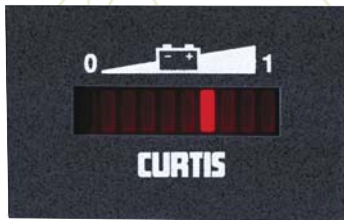
BATTERY "FUEL" GAUGE 906 SERIES

MODEL 906:

DESCRIPTION: Model 906 is an inexpensive, one piece, easy to install battery fuel gauge. It is completely solid state and provides a reliable, accurate, and easy to read display of battery state-of-charge. Model 906 is available in five panel mount packages and a printed circuit board mounted module for custom dash panel applications.

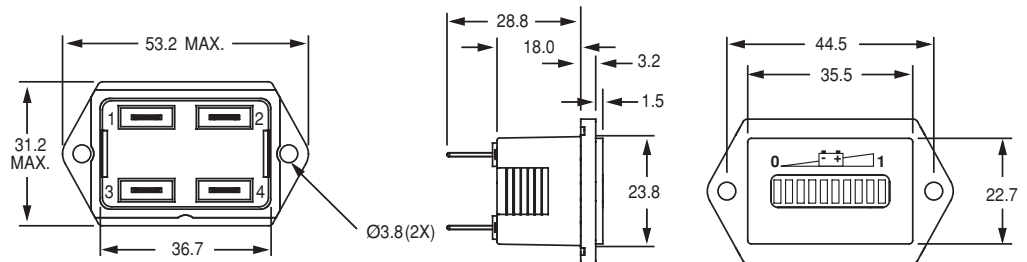
APPLICATION: This battery fuel gauge features Curtis-patented technology and is ideal for golf cars, commercial cleaning equipment, mobility aids, electric bicycles, electric marine motors, medical devices, and similar equipment.

D Case:



906D12HG	12 Volt	906D36HG	36 Volt	\$39⁰⁰
906D24HG	24 Volt	906D48HG	48 Volt	

T Case:

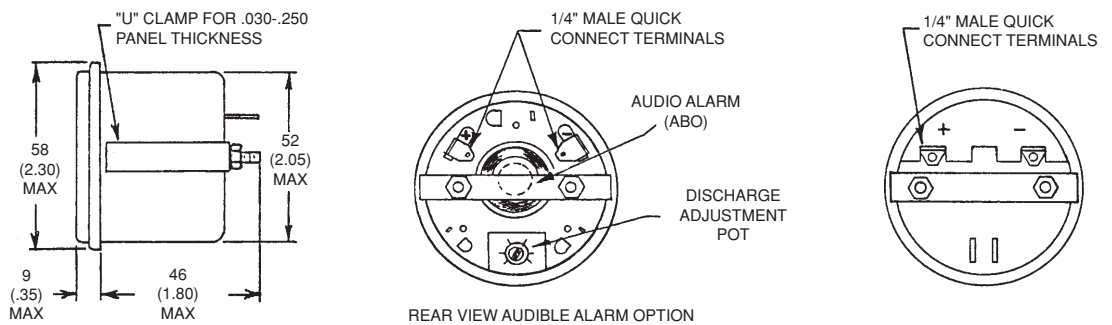


906T12HG	12 Volt	906T36HG	36 Volt	\$38⁰⁰
906T24HG	24 Volt	906T48HG	48 Volt	

BATTERY CAPACITY GAUGE - CURTIS 900 SERIES

MODEL 900:

DESCRIPTION: The Curtis Model 900R battery "fuel" gage is low cost and easy to install. It is a single piece package and installs via a simple 2 wire connection.



System Voltages:
Available in single voltages from 12, 24, 36, 48, 72 and 80VDC. Non-standard high voltage units are available.

900RB12BN	12 Volt	900R36BN	36 Volt	\$98⁰⁰
900RB24BN	24 Volt	900R48BN	48 Volt	

BARRETT		CLARK		HYSTER		YALE	
27522	900RB24BN	923582	900RB24BN	2308295	900RB24BN	7510323-01	900RB12BN
27522-011	900RB24BN			2310110	900RB12BN	7510323-02	900RB24BN
27522-012	900RB12BN			2311294	900RB24BN		
27522-11	900RB24BN						
27522-12	900RB12BN	106288	900RB24BN				
		CROWN					



700 SERIES SOLID STATE HOUR METERS & COUNTERS

DESCRIPTION: The Curtis 700 Series are highly reliable solid state hour meters and counters that offer an unprecedented combination of patented technology, performance, reliability and value.

APPLICATION: A wide variety of industrial and commercial applications, including scheduled maintenance, warranty and leasing – for medical equipment, transport and industrial vehicles and other industrial equipment.

MODEL 700: 2-Wire Hour Meter, displays only when powered. Available in AC/DC.

MODEL 701: 3-Wire Hour Meter, has a provision for continuous display. Available in AC/DC and DC-only.

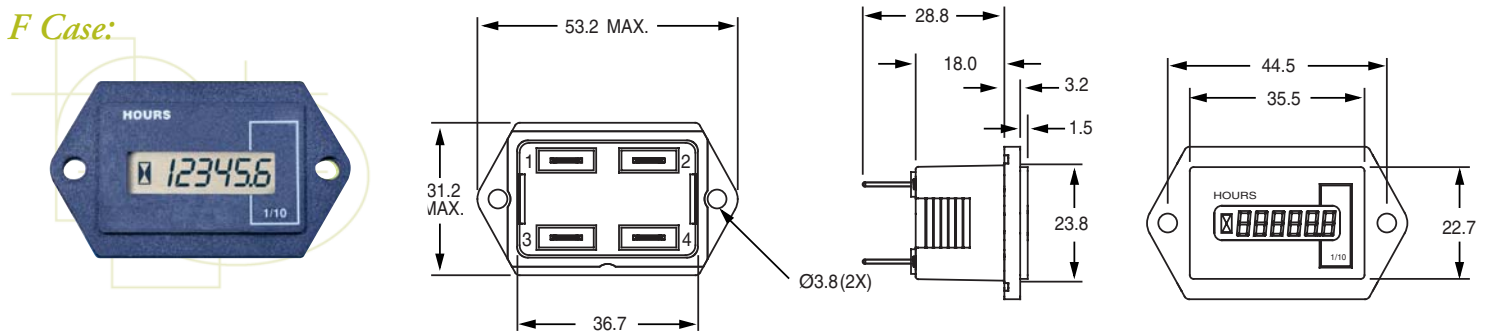
MODEL 703: Pulse Counter. Available in AC/DC and DC-only.

700FN00101248D **\$17⁵⁰**
701FN00101248D

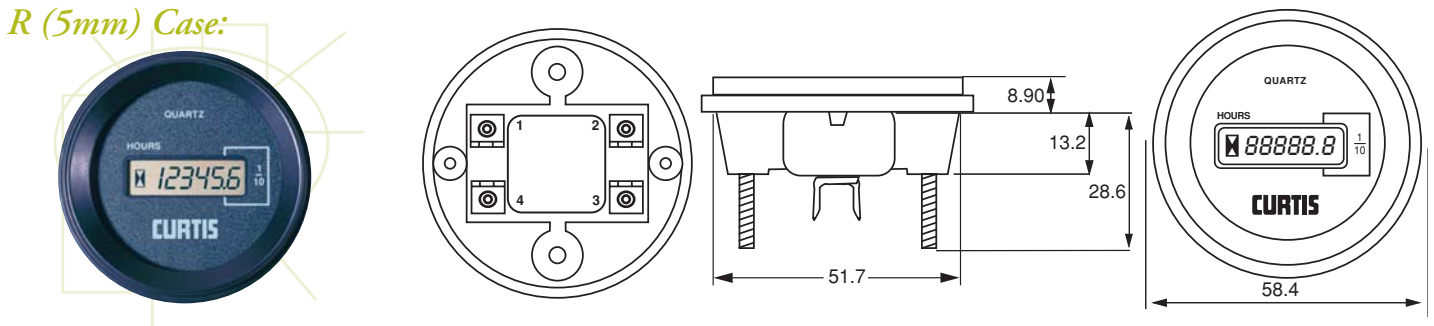
700RN00101248D **\$19⁸⁵**
701RN00101248D (5mm Price Only)

700QN00101248D **\$19⁸⁵**
701QN00101248D

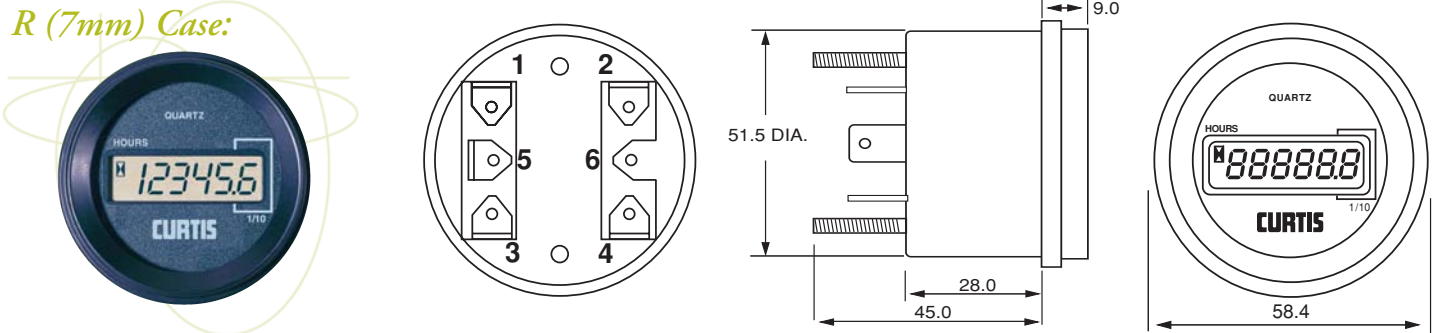
F Case:



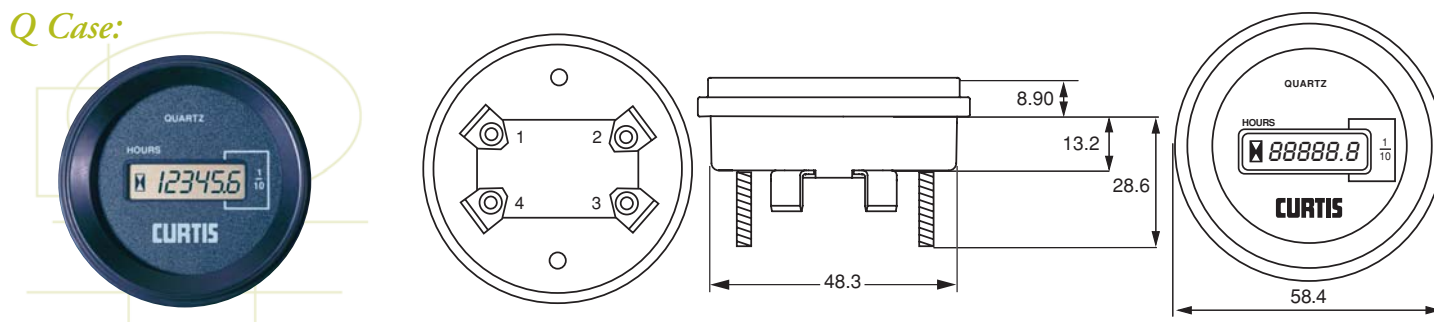
R (5mm) Case:



R (7mm) Case:



Q Case:





BATTERY CHARGERS

MODEL 1620



1620FS-120-24

\$250⁰⁰

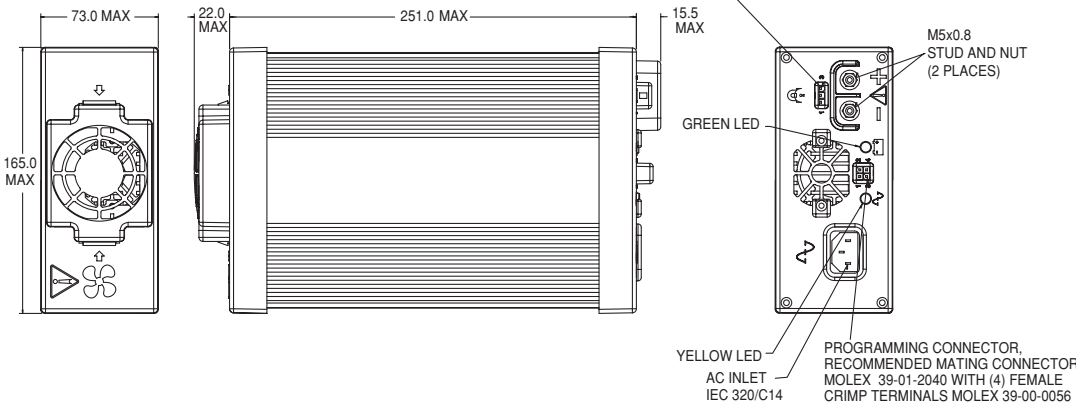
DESCRIPTION: The Curtis 1620 Series switch-mode chargers are portable, 24VDC, 20A chargers that allow easy charging of electric vehicle batteries at any outlet.

APPLICATION: Material Handling market and electric vehicles utilizing 24V power, such as counterbalance trucks, order pickers, pallet trucks, reach trucks, scrubbers, stackers, sweepers, tugs, and walkies.

FEATURES

- User programmability allows the user to optimize the charge profile for their specific battery.
- Microprocessor control and switch-mode operation allows for faster charging, and makes the charger suitable for all types of lead acid batteries.
- Lightweight and compact size offers space advantages over other chargers.
- Will charge a 200Ah battery in less than 12 hours, allowing batteries to be charged overnight.
- Automatic shut-off and restart to compensate for battery self-discharge.
- Forced-air cooling with temperature regulation means maximized power output.
- Internal thermal protection prevents the unit from damage due to over-temperature conditions.
- Thermal cutback operation allows the charger to continue charging at elevated temperatures, rather than shutting off.
- Output current is limited so as not to exceed the maximum power and/or thermal capacity of the charger.
- Output is short-circuit and reverse polarity protected, providing protection to both the charger and the operator.
- LEDs indicate AC Power On, Charging Status, and Fault Conditions, allowing for at-a-glance status indication.
- Motor controller inhibit signal present while the charger senses an AC input, ensuring the machine is immobilized and preventing drive-offs during charging.
- Optional mounting kit (not shown) for on-board charging applications.
- Rated to environmental protection of IP54 (including fan) to allow for operation in harsh environments.
- DC safe connect/disconnect means no sparks are generated when connecting the charger to the battery or to the outlet.
- Advanced design allows fan to be replaced without the use of tools, minimizing service downtime.
- Float mode allows the vehicle's accessories to be used while charging, without draining the battery.

CHARGING INDICATOR CONNECTOR, RECOMMENDED MATING CONNECTOR
MOLEX 39-01-4030 WITH TWO (POS. 1 AND POS. 3) FEMALE CRIMP TERMINALS
MOLEX 39-00-0056



MINIATURE CONTACTORS

MODELS SU60, SW60 SW80



DESCRIPTION: Curtis/Albright relays are DC contactors designed to energize or isolate the vehicle lights, electrical pumps, fans, heating elements, solenoid valves, etc., by means of the key switch.

APPLICATION: Curtis/Albright Main Power/Ignition Relays are eminently suitable for controlling the electrical services on heavy duty construction, forestry and agricultural vehicles and machinery. Additionally, suitable for Telecom rack mounted power supplies and static low current DC power systems

FEATURES

- Curtis/Albright relays and DC contactors offer exceptionally high power ratings for their compact size. Curtis/Albright Ignition/Main Power Relays can take the place of several Cube relays, saving cost, space and installation time.
- This Curtis/Albright relays series is an innovative and unique introduction from the world's leading manufacturer of DC Contactors.
- The relay's miniature size allows exceptional installation flexibility even in the most compact rack assemblies.
- A range of coil voltages are available, including continuously rated voltages for vehicle charging systems.
- The relays are enclosed in IP66 rated cases and can be mounted either directly to a panel (M4 tapped holes are provided) or by means of standard brackets. Note: IP66 rating only applies to "P" types (SW60P, SU60P & SW80P relays)

SU60P-12DC	..... \$29.50	SW60P-12DC	..... \$29.50	SW80P-12DC	..... \$29.50
SU60P-24DC	..... \$34.00	SW60P-24DC	..... \$34.00	SW80P-24DC	..... \$34.00
SU60P-36DC	..... \$36.00	SW60P-36DC	..... \$36.00	SW80P-36DC	..... \$36.00

SU60 for continuous currents up to **100** Amperes.

SW60 for continuous currents up to **80** Amperes.

SW80 for continuous currents up to **125** Amperes



FOOT PEDAL ASSEMBLIES

MODEL FP-6



\$138⁰⁰

DESCRIPTION: A durable foot pedal throttle assembly for use with Curtis electronic motor speed controllers.

APPLICATION: Curtis FP-6/7 Foot pedal assembly is ideal for use in electric forklifts, golf carts, electric street vehicles and other vehicle types.

FEATURES

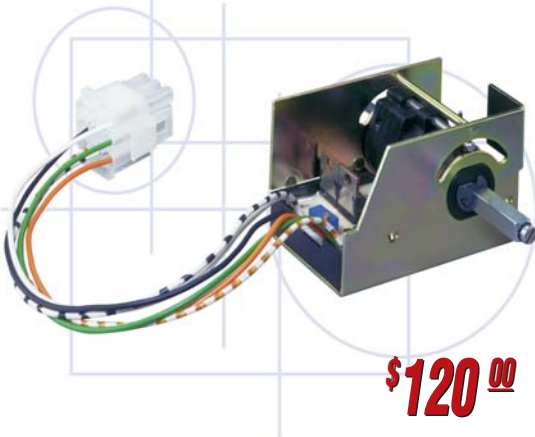
- Rugged LM24 aluminum casing - ideal for tough environments such as material handling
- The entire foot pedal rotates on its mounting base - for maximum installation flexibility
- Cable exit points at rear - for easy installation
- Special return spring design ensures increased reliability
- 5K Curtis potentiometer
- Includes two adjustable micro-switches
- The foot pedal arm can be mounted on either side of the mounting base
- Custom specific pedal arms possible

SPECIFICATIONS

- Maximum current for micro-switches: 4A at 30V DC (Resistive load)
- 3 Wire 5K potentiometer (Curtis 98191)
- 7 Core cable. Length 1000mm
- Pedal shaft stainless steel SS 410

THROTTLE ASSEMBLY

MODEL ET-126



\$120⁰⁰

DESCRIPTION: The Curtis electronic throttle provides an analog 0-5V output proportional to throttle position for interfacing with motor speed controllers.

APPLICATION: This electronic throttle is ideal for use in material handling, golf cars, on-road and other electric vehicle applications which require a 0-5V input for speed control.

FEATURES

- Hall effect sensors and solid state MOSFET contactor drivers minimize moving parts, thereby increasing reliability and Mean Time Between Failure.
- Symmetrical throttle response in both forward and reverse directions ensures smooth, concise acceleration and deceleration in both directions.
- Minimal dead band areas at both zero and full throttle positions eliminates hesitation when beginning to accelerate or decelerate.
- Environmental protection of major components through an epoxy layer over the circuit board assures operation in harsh environmental conditions.
- Wig-wag type throttle returns the throttle to neutral for convenience and safety.
- Input polarity protection to ensure no damage occurs to the throttle if it is incorrectly wired.
- Easy to install.

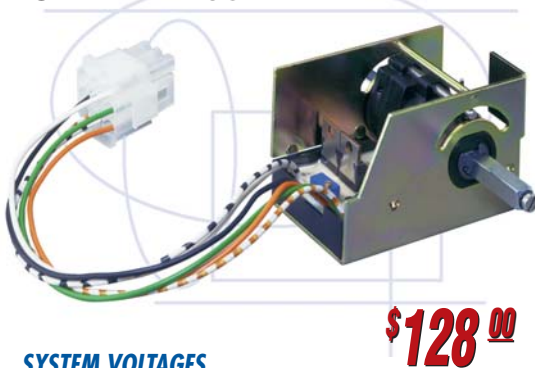
SPECIFICATIONS

- Operating voltage: 13 – 58VDC
- Throttle output range: 0 to 5 Volts
- Maximum throttle output: 5.3 Volts
- Minimum throttle output: 0 Volts
- Maximum dead band at zero throttle: 10 degrees
- Maximum dead band at full throttle: 10 degrees
- Forward/Reverse current: 1.5 amp max
- Symmetrical throttle response in both directions

ELECTRONIC THROTTLE

MODEL ET-103

MODEL ET-108



\$128⁰⁰

DESCRIPTION: The Curtis electronic throttle provides an analog 0-5V output proportional to throttle position for interfacing with motor speed controllers.

APPLICATION: This electronic throttle is ideal for use in material handling, golf cars, on-road and other electric vehicle applications which require a 0-5V input for speed control.

FEATURES

- Hall effect sensors and solid state MOSFET contactor drivers minimize moving parts, thereby increasing reliability and Mean Time Between Failure.
- Symmetrical throttle response in both forward and reverse directions ensures smooth, concise acceleration and deceleration in both directions.
- Minimal dead band areas at both zero and full throttle positions eliminates hesitation when beginning to accelerate or decelerate.
- Environmental protection of major components through an epoxy layer over the circuit board assures operation in harsh environmental conditions.
- Wig-wag type throttle returns the throttle to neutral for convenience and safety.
- Input polarity protection to ensure no damage occurs to the throttle if it is incorrectly wired.
- Easy to install.

SPECIFICATIONS

- Operating voltage: 13 – 58VDC
- Throttle output range: 0 to 5 Volts
- Maximum throttle output: 5.3 Volts
- Minimum throttle output: 0 Volts
- Maximum dead band at zero throttle: 10 degrees
- Maximum dead band at full throttle: 10 degrees
- Forward/Reverse current: 1.5 amp max
- Symmetrical throttle response in both directions

SYSTEM VOLTAGES

- The Model ET-103 and ET-103M have an operating voltage range of 13 to 46 Volts DC.
- The Model ET-108 and ET-108M have an operating voltage range of 26 to 58 Volts DC.