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AUTOMATIC VOLTAGE REGULATORS

GENAUST MODEL AVR380

This solid-state device is designed to control the output voltage of 50 or 60 Hz AC alternators and ensures a stable voltage output is maintained under all load conditions. Directly replaces the Dunlite UVR100 but will also electrically replace almost all known voltage regulators. It is suitable for both 3Φ and 1Φ machines with or without separate excitation. Parallel operation of machines is also possible with this device with only the addition of a quad droop input signal.



Part No #	Features	Max Field Current	Max Field Voltage
G/A AVR380	<ul style="list-style-type: none"> . Voltage Sensing ranges-120,208,240 & 415VAC . Voltage Sensing Frequency – 50 or 60 Hz . On Board Voltage Adjust Range +-10% of each range . Field Excitation switching SCR 50A 1600V . Regulation +-1%, with engine governing to class A ISO3046 . Underspeed Adjustment range 10-55Hz . Underspeed Shutdown time delay 15-20 secs approx . Field overload protection . Min Residual Voltage for reliable excitation 3/5 volts . Min Field Resistance required 3/5 ohms . Remote Adjustment potentiometer 5K ohms 2W . Quad Droop input requirements 5A 10va . Fuse protection for overload and generator faults . Repairable and Australian Made 	10 Amps	226V DC
G/A AVR380 OV	<ul style="list-style-type: none"> . Additional overvolt crowbar protection 	10 Amps	226V DC
G/A AVR380 BI	<ul style="list-style-type: none"> . Additional; biasing signal input 	10 Amps	226V DC
G/A AVR381	<ul style="list-style-type: none"> . Voltage Sensing ranges – 240, 415V & 440VAC 	10Amps	226V DC

GENAUST MODEL AVR911

This solid-state fullwave regulator has been designed to control the output voltage of 50 or 60 Hz AC alternators which have an excitation field ohmage of 25 ohms or more. It exhibits excellent motor starting, field forcing characteristics due to the fullwave DC supplied to the alternator excitation field. It is suitable for both 3Φ and 1Φ machines with or without separate excitation. Parallel operation of machines is also possible with this device with only the addition of a quad droop input signal.



Part No #	Features	Max Field Current	Max Field Voltage
G/A AVR911 FW	<ul style="list-style-type: none"> . Refer 'AVR380' Features 	10 Amps	216V DC
G/A AVR911 BI	<ul style="list-style-type: none"> . Complete with biasing input signal 	10 Amps	216V DC

GENAUST MODEL AVR400

This solid-state device is designed to control the output voltage of 50 or 60Hz AC alternators and ensures a stable voltage output is maintained under all load conditions. Directly replaces the Dunlite SR101A but will also electrically replace almost all known voltage regulators. It is suitable for both 3Φ and 1Φ machines with or without separate excitation and is especially good on 1Φ machines in reducing light flicker due to its increased stability adjustment range.



Part No #	Features	Max Field Current	Max Field Voltage
G/A AVR400	<ul style="list-style-type: none"> . Two Voltage Sensing ranges-120-208 & 240-415V AC . Voltage Sensing Frequency-50 or 60 Hz . On Board Voltage Adjustment Range +-10% of each range . Field Excitation switching SCR 50A 1600V . Regulation +-1%, with engine governing to class A ISO3046 . Underspeed Adjustment range 10-55Hz . Underspeed Shutdown time delay 15-20 secs approx . Min Residual Voltage for reliable excitation 3/5 volts . Min Field Resistance required 3/5 ohms . Remote Adjustment potentiometer 5K ohms 2W . Fuse protection for overload and generator faults . Repairable and Australian Made 	10 Amps	105V DC



Trade Price List

GENAUST MODEL GX340

The GX340 is a solid-state device designed to give accurate and stable voltage regulation of AC alternators regardless of prime mover types and ensures a stable voltage output is maintained under all load conditions. Directly replaces the Stamford Series 3 and 4 regulators but will also electrically replace almost all known voltage regulators. It is suitable for both 3Φ and 1Φ machines with or without separate excitation. Parallel operation of machines is also possible with this device with only the addition of a quad droop input signal.



Part No #	Features	Max Field Current	Max Field Voltage
G/A GX340	<ul style="list-style-type: none"> . Voltage Sensing Range-170 to 280 V AC . Voltage Sensing Frequency-50 or 60 Hz . On Board Voltage Adjust Range +-10% . Field Excitation switching SCR 25A 1000V . Regulation +-1%, with engine governing to class A ISO3046 . Underspeed Adjustment range 10-110Hz . Underspeed Shutdown time delay 15-20 secs approx. . Min Residual Voltage for reliable excitation 3/5 volts . Min Field Resistance required 3/5 ohms . Remote Adjustment potentiometer 5K ohms 2W . Quad droop input requirements 1A 5VA . Fuse protection for overload and generator faults . Repairable and Australian Made 	10 Amps	120V DC

GENAUST MODEL GX600

The GX600 is a solid-state device designed to give accurate and stable voltage regulation of brushless AC alternators regardless of prime mover type. Directly replaces the Stamford Series 6 regulators but will also electrically replace almost all known voltage regulators. It is suitable for both 3Φ and 1Φ machines with either 50 or 60Hz outputs. It is especially useful on 1Φ machines in reducing light flicker with the increased stability adjustment range.



Part No #	Features	Max Field Current	Max Field Voltage
G/A GX600	<ul style="list-style-type: none"> . Voltage Sensing Range - 170 to 270V AC . Voltage Sensing Frequency - 50 or 60 Hz . On Board Voltage Adjustment Range +-10% . Field Excitation switching SCR 25A 800V . Regulation +-1%, with engine governing to class A ISO3046 . Underspeed Adjustment range 10-55Hz . Underspeed Shutdown time delay 15-20 secs approx . Min Residual Voltage for reliable excitation 3/5 volts . Min Field Resistance required 3/5 ohms . Fuse protection for overload and generator faults . Repairable and Australian Made 	10 Amps	105V DC

GENAUST MODEL PR1

The PR Series of AVR are a solid-state universal type for small generators which is designed to give accurate and stable voltage regulation. The AVR is suitable for regulating 50 or 60 Hz brushless, rotating or stationary field alternators regardless of prime mover type and will replace most electronic regulators with or without separate excitation. The AVR is suitable for 1Φ and 3 Φ alternators and has two sensing ranges available. i.e.: 120 and 240V.



Part No #	Features	Max Field Current	Max Field Voltage
G/A PR1	<ul style="list-style-type: none"> . Voltage Adjustment + over each range . Wide range of stability . Stability potentiometer . Easily adaptable as an alternative AVR . Optional four pin plug and lead to suit Robin generators . Fuse protection for overload and generator faults . Repairable and Australian Made 	5 Amps	105V DC

GENAUST MODEL PR2

The PR Series of AVR are a solid-state universal type for small generators which is designed to give accurate and stable voltage regulation. The AVR is suitable for regulating 50 or 60 Hz brushless, rotating or stationary field alternators regardless of prime mover type and will replace most electronic regulators with or without separate excitation. The AVR is suitable for 1Φ and 3 Φ alternators and has two sensing ranges available. i.e.: 120 and 240V. Fully sealed unit recommended for harsh conditions.



Part No #	Features	Max Field Current	Max Field Voltage
G/A PR2	<ul style="list-style-type: none"> . Same features as PR1 though the PR2 is NOT Repairable and is fully sealed in a mounting case for harsh conditions 	5 Amps	105V DC



Trade Price List

GENAUST ACCESSORIES

Part No #	Features
G/A PM380	50A Current Boost module. Used in conjunction with an AVR380 or AVR400 to increase output current to maximum 50A
G/A AVR TF	Replacement onboard sensing transformer for UVR100, AVR380, AVR911 FW
PDS 380 VOLT POT	Remote Pot Including Locking Device 10 turn 5K 2W for remote voltage adjustment. For AVR380, AVR400, AVR911 FW
PDS DROOP KIT	Droop Kit (State generator maximum current) – P.O.A over 800A for Parallel Operation
PDS DROOP RES	Droop Resistor 1 ohm 25W for Parallel Operation
PDS DROOP POT	Droop Potentiometer 100 ohm 2W for Parallel Operation
PDS DROOP CT	Droop Current Transformer (State generator maximum current) for Parallel Operation
PDS AVR ENCL	PVC Enclosure to suit AVR380, AVR400, GX600 & GX340
PDS POT LOCK	A100: Potentiometer Locking Device
PDS POT KNOB	10 turn-dial trimpot knob with locking facility
DUN FUSE 102	5A fuse to suit PR102A, PR102B, RFS100, PR1, PR2
DUN FUSE UVR100	10A fuse to suit UVR100, AVR380, AVR400, AVR911FW, GX340, GX600

DESIGN POWER MODEL AVR-05

This solid-state device is designed to control the output voltage of 50 or 60 Hz AC alternators and ensures a stable voltage output is maintained under all load conditions. It is suitable for both 3 Φ and 1 Φ machines with or without separate excitation. Parallel operation of machines is also possible with this device with only the addition of a quad droop input signal.

Part No #	Features	Max Field Current	Max Field Voltage
PDS AVR-07	<ul style="list-style-type: none"> . Quad Droop input for parallel operation . Integral automatic build-up circuit works with only 1.5V AC residual . Built-in underspeed protection prevents alternator damage . Wide operating range: 180V-280V 50/60Hz (180V-480V 3 phase) . Three phase and single phase application . Provision for external voltage adjust (logic level) . Three phase sensing unit . Can be used in parallel applications . Very low temperature drift of voltage set-point . Totally solid state construction (no relays) . Premium quality components only are used . Optimal control of stability for even the slowest of alternators . High energy spike protection built-in . Ambient air temperature rating 50°C . Generous heatsink for good operating margin at 50oC ambient . Solid, easy to use terminals . Compact size: 135mm x 135mm x 115mm 	30 Amps	108V DC

DESIGN POWER MODEL AVR-400HZ

The AVR-400HZ has been designed as a replacement for ground power unit (GPU) generators in the aircraft industry.

Part No #	Features	Max Field Current	Max Field Voltage
PDS AVR-400HZ	<ul style="list-style-type: none"> . Designed to be mounted inside a protected enclosure. . Drive Method: Switch mode . Output protection: Current limit and 3AB fuse . Build-up Voltage: None required due to external supply . Speed Protection: Auto AVR disable below 340 Hz, re-enable at 380Hz . Sensing Voltage: Three-Phase 115/200V 400Hz . Voltage adjust: External potentiometer, 1k (not included) . Sensing mode: Three-Phase average . Stability adjust: By means of three trimpots. Each term of P.I.D. individually adjustable . Heat Sink: No extra required . Ambient: 55C maximum . Connections: Supplied with 15-way connector with screw-terminals . PCB Size: 124W x 146H x 35D . Installed Size: 124W x 170H x 50D . Hole layout: 109 x 131 (4 x M4 with 12mm pillars) 	10 Amps	24V DC



POWER DRIVE SYSTEMS

Trade Price List

AVR PRICE LIST

Brand	Model	New (Genuine)	New (Alternative)		Exchange	Repair
Dunlite	UVR100	Discontinued	Genaust AVR380	POA	POA	POA
Dunlite	SR101A	POA	Genaust AVR400	POA	POA	POA
Dunlite	PR102A	Discontinued	Genaust PR1	POA	POA	POA
Dunlite	PR102B	Discontinued	Genaust PR1	POA	POA	POA
Dunlite	RFS 100	Discontinued	Genaust PR1	POA	POA	POA
Dunlite	P1000	POA	N/A	N/A	POA	POA
Dunlite	SD2000	Discontinued	Genaust AVR380	POA	POA	POA
Dunlite	Frame 38 Generators	Discontinued	Genaust AVR911*	POA	POA	POA
Markon	AVR 6D	Discontinued	Genaust GX600*	POA	POA	POA
Markon	AVR 6E	POA	Genaust GX600*	POA	POA	POA
Markon	AVR 9C	POA	Genaust GX600*	POA	POA	POA
Markon	AVR 11	POA	Genaust GX600*	POA	POA	POA
Markon	SC 21 SER 2	POA	N/A	N/A	POA	POA
Markon	AVR MD1A	Discontinued	N/A	N/A	POA	POA
Markon	AVR MD1B	Discontinued	N/A	N/A	POA	POA
Markon	MS 1/B	POA	N/A	N/A	POA	POA
Markon	MS 2	Discontinued	N/A	N/A	POA	POA
Markon	MS 2000	POA	Genaust GX600*	POA	POA	POA
Markon	MS 3000B	POA	Genaust GX600*	POA	POA	POA
Markon	MS 3001	POA	Genaust GX600*	POA	POA	POA
Markon	MS 4000	POA	Genaust GX600*	POA	POA	POA
Markon	AVR 21	Discontinued	Genaust GX600*	POA	POA	POA
Markon	AVR MD1C	POA			POA	POA
Stamford	SX460	POA	Genaust GX600	POA	POA	POA
Stamford	Series 6	Discontinued	Genaust GX600	POA	POA	POA
Stamford	SX440 (now AS440)	POA	Genaust GX340	POA	POA	POA
Stamford	Series 4	Discontinued	Genaust GX340	POA	POA	POA
Stamford	MX321	POA	Call for specific advise		POA	POA
Stamford	MX341	POA	Genaust GX340	POA	POA	POA
Modra	AVR-C	POA	Genaust GX600	POA	POA	POA
Modra	SEU-6	Discontinued	Genaust GX600	POA	POA	POA
Onan	300-1540 (VR21YD)	POA	Genaust AVR911*	POA	POA	POA
Onan	300-4066 (VR21)	POA	Genaust AVR380**	POA	POA	POA
Onan	300-2880 (VRAS21)	POA	Genaust AVR911*	POA	POA	POA
Robin	LG201 & LG301	Discontinued	Genaust PR2	POA	POA	POA
Kubota	PA416-1		Call for specific advise		POA	POA
Kubota	PA727		Call for specific advise		POA	POA
Meccalte	SR7	POA	Genaust GX600*	POA		
Meccalte	UVR6	POA				
Design Power	AVR-05	POA			POA	POA
Design Power	AVR-400Hz	POA			POA	POA
BKB	3110-A		Call for specific advise		POA	POA

Please Note: These prices do not include GST

* Mounting Modifications Required
 ** Includes Genaust Power Module



Trade Price List

ALTERNATOR SPARES

Dunlite

Part No #	Features	Part No #	Features
DUN 0500002	Brush Holder P/P F70 F80	DUN BRUSH 7/8	Brushes Frame 77,78,80,88
DUN 05112200	Brush Cap F88	DUN FUSE 102	5A fuse to suit PR102A & PR102B
DUN 06210857	Slip Ring Assembly FR70/77/80	DUN 11000086	Diode BY229 100R FR80, FR70

Markon

Part No #	Features
MKN 002-038	Rectifier Board for SCD/SCN21, SCW21
MKN 036-113	Rectifier Board for SC21
MKN 010-005	LC/S 24,28,31,32 Carbon Brushes
MKN 002-022	Diode (Forward) - B105, B21, B112, LC354, 414, 464, 514, 350, 410, 510, BG164, 184, B164, 184, 224, 254, B352-4, B414, 464, B350, 410, 460
MKN 002-023	Diode (Reverse) - B105, B21, B112, LC354, 414, 464, 514, 350, 410, 510, BG164, 184, B164, 184, 224, 254, B352-4, B414, 464, B350, 410, 460
MKN 002-006	Diode (Forward) for LC/LCS 24, 28, 31 & 32
MKN 002-007	Diode (Reverse) for LC/LCS 24, 28, 31 & 32
MKN 002-058	Diode Bridge Rectifier for SD105, SW105
MKN 036-115	Suppressor for SC/D 105
MKN 14-116-1	End Cover
MKN 08-062-1	Fan (Plastic)
MKN 002-524	Diode (Forward) for B314, 364, 514, 604, 654, 704, B904, B510, B600, B700
MKN 002-525	Diode (Reverse) for B314, 364, 514, 604, 654, 704, B904, B510, B600, B700

Modra

Part No #	Features	Part No #	Features
MODRA 10014	Bridge Diode Ass to suit XL8	MODRA 11182	Alternator Mount ½ x 2UNF
MODRA 10031	End cover moulded suit XL5	MODRA 12003	Carbon Brushes
MODRA 10077	Field Coil XC	MODRA 12008	Capacitor 0.1/10/630 (18mm)
MODRA 10091	Field Coil XL3	MODRA 12009	Capacitor 16uF
MODRA 10095	Field Coil XL8	MODRA 12024	Capacitor 30uF/400V
MODRA 10100	Transformer XL8	MODRA 12028	Capacitor 50uF to suit 3 kVA
MODRA 10115	Field Coil XL5	MODRA 12040	Capacitor 25uF to suit XL8
MODRA 10118	Transformer XL5	MODRA 12046	Capacitor 12uF to suit XL3
MODRA 10479	Diode PCB XD	MODRA 12048	Capacitor 20uF to suit XL5
MODRA 10492	Diode PCB XL	MODRA 12200	Brush Holder - Moulded
MODRA 10638	Transformer L415/1	MODRA 12203	Brush Cap to suit 12200
MODRA 11006	Brush Holder - Brass	MODRA 13004	Fan 1 & 1/8 Bore X Type
MODRA 11029	Connection Spring	MODRA 13040	Slip Ring 15mm
MODRA 11179	Engine Mount 3/8 x 5/16	MODRA 13083	Fan 1 & ¼ Bore X Type
MODRA 11180	Engine Mount 3/8 x 3/8		



Trade Price List

Meccalte

Part No #	Features
MEC ROT REC KIT1	Rotating rectifier kit to suit: C2, AP, A1, AR1, Ar2, MR1, MR2
MEC ROT REC KIT2	Rotating rectifier kit to suit: EC3, ECO3, CT3, CTO3
MEC ROT REC KIT3	Rotating rectifier kit to suit: ECSN28, ECSO28, EC31, ECN31, ECSN31, ECO32, ECN34, ECO34

Stamford

Part No #	Features	Part No #	Features
ST RSK-1101	BC1 Rectifier Repair Kit	ST RSK-5001	HC4 & 5 Rectifier Repair Kit
ST RSK-2001	UC Rectifier Repair Kit	St RSK-6001	HC6 & 7 Rectifier Repair Kit

Please note: If you require parts for any of the following machines please contact us for details:

Honda, Kawasaki, Robin, Sincro, Suzuki, Yamaha

Diodes

Part No #	Features
PDS DIODE 30 1200 F	Diode 30Amp 1200V D04 Case Forward
PDS DIODE 30 1200 R	Diode 30Amp 1200V D04 Case Reverse
PDS DIODE 50 1200 F	Diode 50Amp 1200V ¼" Forward
PDS DIODE 50 1200 R	Diode 50Amp 1200V ¼" Reverse
PDS DIODE 50 500 P/F F	Diode 55Amp 500V Press Fit ½" Forward
PDS DIODE 50 500 P/F R	Diode 55Amp 500V Press Fit ½" Reverse
PDS DIODE 70 1200 F	Diode 70Amp 1200V D05 Case Forward
PDS DIODE 70 1200 R	Diode 70Amp 1200V D05 Case Reverse
PDS DIODE 80 1200 F	Diode 80Amp 1200V ¼" Case Forward
PDS DIODE 80 1200 R	Diode 80Amp 1200V ¼" Case Reverse

Varistors

Part No #	Features
PDS 275V VARS	275V Voltage/Surge Protection Varistors



Trade Price List

BATTERY CHARGERS

GENAUST

This charging unit is a full wave silicon controlled automatic constant potential current limiting device. Can be used wherever static charging of batteries is required on machinery during non-operating periods such as standby D/A sets. Includes an automatic boost charge facility, which can also be activated from an external input. The constant potential current limited characteristics of this charger minimises the time required to achieve full charging of a battery by charging at maximum charge current until the gassing or float charge state is reached. At this condition the charging current decreases to the standby or trickle charge condition. Unit comes complete with volt free contacts for low volts alarm.



Part No #	Charging System	Supply Voltage	Charging Current	Low Volt Alarm	Float Voltage
G/A CPCL 10-1	12V	240VAC +- 10% 50Hz +- 20%	Cont Limit to 10A RMS	Clean SPDT contact 10A @ 240VAC. Adjustable	Adjustable 1.2 to 2.5 V/cell
G/A CPCL 10-2	24V	240VAC +- 10% 50Hz +- 20%	Cont Limit to 10A RMS	Clean SPDT contact 10A @ 240VAC. Adjustable	Adjustable 1.2 to 2.5 V/cell

Genaustr Accessories

Part No #	Description
G/A BC 12V TF	12V Battery Charger Transformer
G/A BC 24V TF	24V Battery Charger Transformer
G/A BCU 381-1	12V Battery Charger Printed Circuit Board ONLY
G/A BCU 381-2	24V Battery Charger Printed Circuit Board ONLY

DEEP SEA ELECTRONICS

These battery chargers are designed for permanent connection to automotive batteries, maintaining them in a fully charged condition without overcharging. The chargers are also capable of rapidly recharging the batteries when necessary at a current up to the full rated output. The chargers may also be used to supply a standing load attached to the battery and the charger output may be factory set to account for the standing load. It features radio frequency suppression and its smooth output linear mode design has a low ripple voltage making the charger suitable for use with electronic equipment. The chargers also have Overload and Short Circuit protection features, and boost charge facility.



Part No #	Charging System	Supply Voltage	Charging Current	Charge Fail Warning	Float Voltage
D/S 5110/12	12V	220-257 V AC	10A	Clean SPST contact 5A @ 240 VAC	Up to 14.5V adjustable
D/S 5110/24	24V	220-257 V AC	10A	Clean SPST contact 5A @ 240 VAC	Up to 29.0V adjustable
D/S 5105/12	12V	220-250 V AC	5A	Clean SPST contact 5A @ 240 VAC	Up to 14.5V adjustable
D/S 5104/24	24V	220-250 V AC	5A	Clean SPST contact 5A @ 240 VAC	Up to 29.0V adjustable

AMTEX

High efficiency, switch mode battery charger.

Part No #	Charging System	Supply Voltage	Charging Current	Float Voltage
B/C AMT 9640-12	12V	240VAC	2.7A	13.8 Factory Set
B/C AMT 9640-24	24V	240VAC	1.5A	27.6 Factory Set
B/C AMT 9840-12	12V	240VAC	5A	13.8 Factory Set
B/C AMT 9740-24	24V	240VAC	5A	27.6 Factory Set
B/C AMT ZWS50-15-JCA	12V	240VAC	3.5A	13.8 Factory Set
B/C AMT ZWS75-28-JCA	24V	240VAC	2.7A	27.6 Factory Set
B/C AMT 9740-12	12V	240VAC	10A	13.8 Factory Ser
B/C AMT 9044-24	24V	240VAC	10A	27.6 Factory Set
B/C AMT SWS300-15	12V	240VAC	21A	13.8 Factory Set
B/C AMT SWS600-28	24V	240VAC	25A	27.6 Factory Ser



Trade Price List

ARLEC

Part No #	Description
ARLEC BC906	Compact Automatic 4 amp Battery Charger 12V
ARLEC BC588	Compact 4.5 amp Battery Charger with LED Display
ARLEC BC10	Compact 6 amp Battery Charger
ARLEC BC46	Auto cut off 12V/24V 5 amp Battery Charger
ARLEC BC48	Auto cutt off 12V/24V 10 amp
ARLEC BC52	6V 12V 5 amp Heavy Duty Battery Charger
ARLEC BC54	6V 12V 10 amp Heavy Duty Battery Charger
ARLEC BC56	6V 12V 15 amp Heavy Duty Battery Charger
ARLEC BC58	12V 24V 15 amp Heavy Duty Battery Charger
ARLEC BC60	6V 12V 24V 5 amp Heavy Duty Battery Charger
ARLEC BC62	Fully Automatic 10,000 series 12V 9 amp
ARLEC BC64	Fully Automatic 10,000 series 24V 10 amp

Battery Testers

Part No #	Description
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Trade Price List

CONTACTORS

L.G. MAGNETIC CONTACTORS

Part No #	KW at 415VAC	Amps AC3	Amps AC1	Part No #	KW at 415VAC	Amps AC3	Amps AC1
LG CONT GMC-9	4	9	20	LG CONT GMC-100	55	105	150
LG CONT GMC-12	5.5	12	20	LG CONT GMC-125	63	120	150
LG CONT GMC-18	7.5	18	25	LG CONT GMC-150	75	150	200
LG CONT GMC-22	11	22	32	LG CONT GMC-180	90	180	230
LG CONT GMC-32	15	32	52	LG CONT GMC-220	150	250	260
LG CONT GMC-40	22	40	60	LG CONT GMC-300	175	300	350
LG CONT GMC-50	25	50	80	LG CONT GMC-400	220	400	420
LG CONT GMC-65	37	65	100	LG CONT GMC-600	350	630	660
LG CONT GMC-75	40	75	110	LG CONT GMC-800	450	800	800
LG CONT GMC-85	45	85	135				

- Standard AC Coil Voltages (DC on request)
- kW ratings are approximate only (Check motor FLC with AC3 rating)

ACCESSORIES

Aux. Contact for GMC Series

Part No #	Description	Part No #	Description
LG AUX CON AU-1	Aux. Contact (Side Mounting)	LG AUX CON AU-2	Aux. Contact (Top Mounting)
LG AUX CON AU-100	Aux. Contact (Side Mounting)	LG AUX CON AU-4	Aux. Contact (Top Mounting)

Mechanical Interlock Unit for GMC Series

Part No #	Description	Part No #	Description
LG M/LOCK AR-9	Mechanical Interlock for GMC-9-85	LG M/LOCK AR-180	Mechanical Interlock for GMC-180-400
LG M/LOCK AR-100	Mechanical Interlock for GMC-100-150	LG M/LOCK AR.600	Mechanical Interlock for GMC-600-800

Mechanical Latch Unit for GMC Series

Part No #	Description	Part No #	Description
LG M/LATCH AL-9	Mechanical Latch for GMC-9,12,18,22,32,40	LG M/LATCH AL-150	Mechanical Latch for GMC-150
LG M/LATCH AL-50	Mechanical Latch for GMC-50,65,75,85	LG M/LATCH AL-200	Mechanical Latch for GMC-180,220
LG M/LATCH AL-100	Mechanical Latch GMC-100,125	LG M/LATCH AL-400	Mechanical Latch for GMC-300,400



Trade Price List

OVERLOAD RELAYS

LG DIFFERENTIAL ACTING TYPE THERMAL OVERLOADS

Part No #	Overload Ranges	Part No #	Overload Ranges
LG O/L GTK-22	0.1A to 22A	LG O/L GTK-150	34A to 150A
LG O/L GTK-40	4.0A to 40A	LG O/L GTK-220	65A to 240A
LG O/L GTK-85	7.0A to 85A	LG O/L GTK-400	85A to 400A
LG O/L GTK-100	34A to 125A	LG O/L GTK-600	200A to 800A

ACCESSORIES

Separate Mounting Unit for GMC Series

Part No #	Description	Part No #	Description
LG S/MOUNT AZ-22H	Separate Mounting Unit for GMC-9,12,18,22	LG S/MOUNT AZ-85H	Separate Mounting Unit for GMC-50,65,75,85
LG S/MOUNT AZ-40H	Separate Mounting Unit for GMC-32,40		

LG DIGITAL MOTOR PROTECTION RELAY

Part No #	Mounting	Range	Part No #	Mounting	Range
LG DMP06-S	Screw	0.5A to 6.0A	LG DMP06-T	Tunnel	0.5A to 6.0A
LG DMP60-S	Screw	5.0A to 60.0A	LG DMP60-T	Tunnel	5.0A to 60.0A
LG DMP06-SE	Extension	0.5A to 6.0A	LG DMP06-TE	Extension	0.5A to 6.0A



ENGINE MANAGEMENT CONTROLS

GENAUST EPU390

This engine protection unit is designed to protect diesel engines from damage caused by such things as over heating, overspeed, underspeed or loss of lubrication pressure.



Part No #	Description
G/A EPU390	Engine Protection unit

GENAUST SSU 383

Engine speed sensing unit with 3 adjustable levels and clean contact SPDT outputs. Sensing from either a magnetic pick up or 240VAC 50Hz.

Part No #	Description
G/A SSU 383-1	12V Speed Sensing Unit
G/A SSU 383-2	24V Speed Sensing Unit

GENAUST VSU 385

Designed to monitor 3 Φ normal mains supply voltage as well as 1 Φ standby voltage. Has on board relays to give clean contact outputs for standby start initiation and load acceptance. Senses both over and under volts for each supply as well as phase differential on the 3 Φ mains sensing inputs.

Part No #	Description
G/A VSU 385	Voltage Sensing Unit

GENAUST CSU 387

This unit is a simple in synchronism check unit to prevent two D/A sets from being paralleled incorrectly.

Part No #	Description
G/A CSU 387-1	12V Check Synchronising Unit
G/A CSU 387-2	24V Check Synchronising Unit

GENAUST ECU 384

Used for the control and protection of stationary diesel engines with 4 safety shutdown inputs and 2 SPDT 10A clean contacts for switching fuel solenoids and starter motor solenoids. Safety inputs can be selected for N.C. or N.O. contact configuration.

Part No #	Description
G/A ECU 384-1	12V Engine Control Unit
G/A ECU 384-2	24V Engine Control Unit

GENAUST TSU 389

Intended for use as a standby D/A set sensing and start timing unit. Has inbuilt/onboard adjustable timers for Delay start, 3 repeat cranking, Delay supply return and Delay engine stop or cool down period. Allows either 3 or 1 Φ normal mains supply to be monitored as well as 1 Φ standby supply. Also provides output signals for transfer switch control, crank periods and engine start/stop. Interfacing with a hybrid system comprising of say an inverter and storage battery bank is possible with an onboard selector switch. Provision for remote start, stop, test and lockout signals are also included.

Part No #	Description
G/A TCU 389-1	12V Timing and Sensing Unit
G/A TCU 389-2	24V Timing and Sensing Unit



Trade Price List



BERNINI

Part No #	Description
BE20A	12/24V Basic Local and Remote Engine Start and protection Module
BE23	Genset Controller with full AC & DC metering, engine & AC protection and manual and auto start and CB closing.
BE23-RS232	RS232 Interface
BE21	Replaces BE11. Single Phase AMF Control Unit. 12/24V
BE32N	3 Phase AMF Control Unit
BE2000	Single or Three phase AMF unit with wide range of features, remote monitoring via RS232 and modem.



CAPRICORN

Part No #	Description
CAP-ATM72A230	Automatic Transfer Unit
CAP-EPM72D	Keystart Engine Protection Module, alternator sensing and overspeed
CAP-KSM72D	Alternator sensing with overspeed Keystart Module
CAP-RSM72K	Remote Start Module
CAP-SDM72A	Demand Start Module

DEEP SEA ELECTRONICS

Part No #	Description	Part No #	Description
D/S 501K	Manual Start Module	D/S 555-E	AMF with Enhanced Metering
D/S 504	Four Channel Annunciator	D/S 560	Remote Start Module, engine & alternator metering
D/S 509	Automatic Mains Failure Module	D/S 603	Automatic Mains Failure Module
D/S 520	Automatic Start Module	D/S 604	Automatic Start Module
D/S 500	Automatic Transfer Switch Module	D/S 610	Annunciator
D/S 530	Auto Transfer Switch Module, manual cont	D/S 801	Calibration Unit
D/S 540	Protection Expansion/Annunciator 6 LED	D/S 808	
D/S 541	Protection Expansion/Annunciator 12 LED	D/S 810	PLC Software Configuration Interface
D/S 550-B	Auto Start Module, Basic Metering	D/S 103	Two Element Speed Switch
D/S 550-E	Auto Start Module, Enhanced Metering	D/S 154	Relay Expansion Module
D/S 555-B	AMF with Basic Metering		



LOVATO

6GC generator control units are microprocessor controlled and available in three types used to automatically start generator sets and network generator changeover sets when mains anomalies occur.



Part No #	Description
CLI 6GC12	12VDC Automatic Mains Failure Engine Protection Unit
CLI 6GC24	24VDC Automatic Mains Failure Engine Protection Unit
CLI 6GC12N	12VDC Automatic Mains Failure Engine Protection Unit with RS485 Interface
CLI 6GC24N	24VDC Automatic Mains Failure Engine Protection Unit with RS485 Interface
CLI 6GC12RS	12VDC Automatic Mains Failure Engine Protection Unit with RS232 Interface
CLI 6GC24RS	24VDC Automatic Mains Failure Engine Protection Unit with RS232 Interface



Trade Price List

COMAP INTELILINES

IntelliLite

Part No #	Description
CA IL-MRS 10	IntelliLite single set controller manual and auto
CA IL-MRS 15	MRS 10 & 10M & Modem support, kWh & IDMT
CA IL-MRS 11	IntelliLite single set controller manual and auto + CB controller
CA IL-MRS 16	MRS 11 + 10M Modem support, kWh & IDMT
CA IL-AMF 20	IntelliLite AMF Controller
CA IL-AMF 25	AMF 20 + 10M Modem support, kWh & IDMT

IntelliGen

Part No #	Description
CA IG-CU	Intelligen central unit Including AMF
CA IG-COM	Communication and power management
CA IG-PCLSM	Power Control and load sharing module
CA IG-PCM	Power Control Module
CA IG-AVRI	AVR control interface
CA IG-IOM	I/O's extension module

IntelliGen Marine

Part No #	Description
CA IG-CU-MARINE	Intelligen central unit Including AMF for marine application
CA IG-COM-MARINE	Communication and power management for marine application
CA IG-PCLSM-MARINE	Power Control and load sharing module for marine application
CA IG-AVRI-MARINE	AVR control interface for marine application
CA IG-IOM-MARINE	I/O's extension module for marine application

N.B. IG-TRANS is essential for the marine application. Other accessories as above.

Intelisys

Part No #	Description
CA IS-CU	Intelisys Base Model
CA IS-PCM	Intelisys + PCM single set parallel to mains
CA IS-PCLSM	Intelisys + PCLSM multiple sets in parallel
CA IS-PCLSM+PCM	Intelisys + PCLSM multiple sets in parallel and in parallel with mains
CA IG-AVRI	AVR Control interface C/W AVRI Trans

Accessories

Part No #	Description
CA IG-TRANS	Isolation Transformers (3) (for separated neutrals)
CA IG-NPU	Vector surge mains protection (separate module)
CA IG-MU	Modem unit for multiple sets (one per inst)
CA IG-MAINS	Intelimains – Import/Export controller
CA IG-PSC	Power station controller (either DSE or SSE)
CA IG-EP250	Potentiometers (2 wire)
CA IG-EP300	Potentiometers (3 wire)
CA IG-SF305DIN-40/A	3 Phase, 5 amp lightning & surge suppressor
CA IG-SF110DIN-50V/A	50V DC Lightning & surge suppressor
CA IG-SL1DINPSTN	Modem line lightning & surge suppressor



Trade Price List

ENGINE CONTROLS

FUEL SOLENOIDS

Part No #	Description
ENG BT12 F/SOL	12VDC 1 1/2"/38mm Stroke 20 lbf Pull Fuel Solenoid
ENG BT12A F/SOL	12VDC 1"/25mm Stroke 16 lbf Pull Fuel Solenoid
ENG BT24 F/SOL	24VDC 1 1/2"/38mm Stroke 20lbf Pull Fuel Solenoid
ENG BT24A F/SOL	24VDC 1"/25mm Stroke 16 lbf Pull Fuel Solenoid
ENG SYN 12V 9/20 F/SOL	12VDC 9lb pull 20lb hold Syncro Fuel Solenoid
ENG SYN 12V 18/40 F/SOL	12VDC 18lb pull 40lb hold Syncro Fuel Solenoid
ENG SYN 24V 18/40 F/SOL	24VDC 18lb pull 40lb hold Syncro Fuel Solenoid

STARTER SOLENOIDS

Part No #	Description
ENG 100A 12V START SOL	12VDC 100 amp Starter Solenoid
ENG 70A 24V START SOL	24VDC 70 amp Starter Solenoid

SLAVE RELAYS

Part No #	Description
ENG 30/12 4 RELAY	30 Amp 12VDC 4 pin Slave Relay
ENG 30/24 4 RELAY	30 Amp 24VDC 4 pin Slave Relay
ENG 30/12 5 RELAY	30 Amp 12VDC 5 pin Slave Relay
ENG 30/24 5 RELAY	30 Amp 24VDC 5 pin Slave Relay

DC CIRCUIT BREAKERS

Part No #	Description
ENG 10A C/B	16mm cut out panel mount centre reset button 10A DC circuit breakers
ENG 15A C/B	16mm cut out panel mount centre reset button 15A DC circuit breakers

GAUGES

Part No #	Description	Part No#	Description
ENG 350 030 016	12V 500 kPa 52mm Oil/Air Pressure Gauge	ENG 350 040 016	24V 500 kPa 52mm Oil/Air Pressure Gauge
ENG 350 030 017	12V 1000 kPa 52mm Oil/Air Pressure Gauge	ENG 350 040 017	24V 1000 kPa 52mm Oil/Air Pressure Gauge
ENG 310 030 002	12V 40-120oC 52mm Water Temperature Gauge	ENG 310 040 002	24V 40-120oC 52mm Water Temperature Gauge
ENG 310 030 003	12V 50-150oC 52mm Engine/Oil Temperature Gauge	ENG 310 040 003	24V 50-150oC 52mm Engine/Oil Temperature Gauge
ENG 332 030 001	10-16V Voltmeter Gauge	ENG 332 040 001	20-32V Voltmeter Gauge
ENG 190 037 002	60-0-60 internal shunt 52mm Ammeter	ENG 190 037 003	100-0-100 internal shunt 52mm Ammeter
ENG 331 032 001	Counter type with operation indicator, 0-99999.9 hrs 77mm deep 52mm Hours Run meter		



POWER DRIVE SYSTEMS

Trade Price List

SENDERS

Part No #	Description
ENG 360.001	0-500 kPa 1/8"-27 NPTF Oil Pressure Sender
ENG 360.014	0-600 kPa 1/8"-27 NPTF Oil Pressure Sender
ENG 360.002	0-1000 kPa 1/8"-27 NPTF Oil Pressure Sender
ENG 320.002	40-120oC 1/8"-27 NPTF push Temperature Sender
ENG 320.035	40-120oC M14 x 1.5 Temperature Sender
ENG 320.007	50-150oC M14 x 1.5 Thread Engine/Oil Temperature Sender
ENG 320.021	50-150oC 1/8"-27 NPTF Engine/Oil Temperature Sender

MAG PICK-UPS

Part No #	Length	Thread Size	Drill Size	Description
ENG MPU 675	75mm	5/8"-18 UNF-2A	37/64	With 175mm leads
ENG MPU 677	75mm	5/8"-18 UNF-2A	37/64	Without Mil mating Half Connector
ENG MPU 679	75mm	5/8"-18 UNF-2A	37/64	With mil mating half connector & weather boot
ENG MPU 6721	75mm	5/8"-18 UNF-2A	37/64	With automotive connector
ENG MPU 62.5	62.5mm	3/8"-24 UNF-2A	.332	With 150mm shielded cable
ENG MPU 25	25mm	M18x1.5		Inductive sender
ENG MPU 44	44mm	3/4"-16 UNF		Inductive sender
ENG MPU 84	84mm	3/4"-16 UNF		Inductive sender

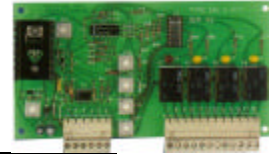


Trade Price List

FUEL LEVEL CONTROLS

GENAUST FUEL LEVEL CONTROL

Typically used for controlling the fuel level in a stationary diesel engines fuel service tank. The level sensing medium is a commercially available float level resistance sender and the unit provides 4 adjustable levels. Two are used for transfer pump control while the others provide signals for low and empty fuel level.



Part No #	Description
G/A FLU 386-1	12V Fuel Level Control Unit
G/A FLU 386-2	24V Fuel Level Control Unit

FUEL LEVEL GAUGES

Part No #	Voltage	Description
VDO 301010010	12V	52mm Round Panel Gauge (0-90Ω)
VDO 301040002	24V	52mm Round Panel Gauge (Vary Range)

LEVEL SENDER UNITS

Part No #	Description	Tank Depth
VDO 220.004	Float Arm Unit (0-90Ω) Sender unit to suit G/A FLU 386-1 & 2	150-535mm

FUEL FLOAT SWITCHES

Side Entry

Part No #	Stem & mounting	Materials Float	Lead Wire Jacket	Min Liquid Sp. Gr.	Operating Temp	Operating Pressure, Max.	Switch SPST	Lead Wire Gauge	Float Arc Envelope
GEM5-131100		Polypropylene (20% Glass)	PVC	.55	-40°F to +255°F (-40°C to +107.2°C)	100 PSI @ 70°F	20 VA	#22 AWG	1.25
GEM7-160450		Polypropylene	TPE	.55	-40°F to +225°F (-40°C to +107.2°C)	100 PSI @ 70°F	20 VA	#22 AWG	1.50

Top Entry

*Float Switch Only

Part No #	Stem & mounting	Materials Float	Other Wetted	Min Liquid Sp. Gr.	Operating Temp	Pressure, PSI, Max.	Switch SPST
GEM-162745*	Nylon 1/8" NPT	Buna		.45	Oil: -40°F to +250°F (-40°C to +121°C)	150	20 VA
GEM-01701*	Brass	Buna	316 S.S. Epoxy	.45	Water: to 180°F (82.2°C) Oil: -40°F to +230°F (-40°C to +110°C)	150	20 VA

Top Entry Custom Made

Part No #	Mounting	Termination	Number of Floats	Stem Lengths
ECE LS-S1A	1" BSP	1m Cable	1	Up To 500mm
ECE LS-S1B	1" BSP	W/P J/Box	1	Up To 500mm
ECE LS-S4A	2" BSP	1m Cable	1	Up To 500mm
ECE LS-S4B	2" BSP	W/P J/Box	1	Up To 500mm

Note: Custom Made float switches with a maximum of up to 5 floats and up to 4 meters long are available, Price on application.



Trade Price List

METERS

Voltmeters

Part No #	Description	Part No #	Description
CRO 72-300VAC	72mm 300VAC Voltmeter	CRO 96-300VAC	96mm 300VAC Voltmeter
CRO 72-500VAC	72mm 500VAC Voltmeter	CRO 96-500VAC	96mm 500VAC Voltmeter

Frequency Meters

Part No #	Description	Part No #	Description
CRO 72-200/250 FREQ	72mm 200/250V Frequency Meter - Analogue	CRO 96-200/250 FREQ	96mm 200/250V Frequency Meter - Analogue
PDS 72 HZ-V	72mm Frequency Meter – Vibrating Reed	PDS 96 HZ-V	96mm Frequency Meter – Vibrating Reed

Ammeters

Part No #	Description	Part No #	Description
CRO 72-100-2x	72mm 100A 2X O/Scale Ammeter	CRO 96-100-2x	96mm 100A 2X O/Scale Ammeter
CRO 72-150-2x	72mm 150A 2X O/Scale Ammeter	CRO 96-150-2x	96mm 150A 2X O/Scale Ammeter
CRO 72-200-2x	72mm 200A 2X O/Scale Ammeter	CRO 96-200-2x	96mm 200A 2X O/Scale Ammeter
CRO 72-100-6x	72mm 100A 6X O/Scale Ammeter	CRO 96-100-6x	96mm 100A 6X O/Scale Ammeter

Hours Run Meters

Part No #	Description	Part No #	Description
PDS HM1	48mm 240V 50Hz Hours Run	CRO 96-100/125 HRM	96mm 100/125V Hours Run
CRO 72-100/125 HRM	72mm 100/125V Hours Run	CRO 96-200/250 HRM	96mm 200/250V Hours Run
CRO 72-200/250 HRM	72mm 200/250V Hours Run		

ENCLOSED METERS

Meters complete in a PVC enclosure. Comes complete with one meter of cable attached, suitable to plug into a standard power point.

Part No #	Description	Part No #	Description
PDS V ENCL	Volts Test Enclosure	PDS VHz ENCL	Volts/Frequency Test Enclosure
PDS Hz ENCL	Frequency Test Enclosure	PDS VHzA ENCL	Volts/Frequency/Amp Test Enclosure

CURRENT TRANSFORMERS

Part No #	Description	Part No #	Description
CRO 20/5 16D	CT 20/5A 1.25VA 16mm Diameter	CRO 200/5 23D	CT 200/5A 15VA 23mm Diameter
CRO 30/5 16D	CT 30/5A 1.5VA 16mm Diameter	CRO 250/5 23D	CT 250/5A 20VA 23mm Diameter
CRO 40/5 16D	CT 40/5A 1.25VA 16mm Diameter	CRO 300/5 23D	CT 300/5A 30VA 23mm Diameter
CRO 50/5 16D	CT 50/5A 1.25VA 16mm Diameter	CRO 100/5 36D	CT 100/5A 1.25VA 36mm Diameter
CRO 60/5 16D	CT 60/5A 2.5VA 16mm Diameter	CRO 150/5 36D	CT 150/5A 5VA 36mm Diameter
CRO 40/5 23D	CT 40/5A 2.5VA 23mm Diameter	CRO 200/5 36D	CT 200/5A 5VA 36mm Diameter
CRO 50/5 23D	CT 50/5A 2.5VA 23mm Diameter	CRO 250/5 36D	CT 250/5A 7.5VA 36mm Diameter
CRO 60/5 23D	CT 60/5A 3.75VA 23mm Diameter	CRO 300/5 36D	CT 300/5A 7.5VA 36mm Diameter
CRO 75/5 23D	CT 75/5A 2.5VA 23mm Diameter	CRO 400/5 36D	CT 400/5A 7.5VA 36mm Diameter
CRO 80/5 23D	CT 80/5A 2.5VA 23mm Diameter	CRO 500/5 36D	CT 500/5A 7.5VA 36mm Diameter
CRO 100/5 23D	CT 100/5A 5VA 23mm Diameter	CRO 600/5 36D	CT 600/5A 10VA 36mm Diameter
CRO 120/5 23D	CT 120/5A 5VA 23mm Diameter	CRO 750/5 36D	CT 750/5A 10VA 36mm Diameter
CRO 125/5 23D	CT 125/5A 5VA 23mm Diameter	CRO 800/5 36D	CT 800/5A 10VA 36mm Diameter
CRO 150/5 23D	CT 150/5A 10VA 23mm Diameter	CRO 1000/5 36D	CT 1000/5A 15VA 36mm Diameter



Trade Price List

CURRENT & VOLTAGE MONITORS

CURRENT RELAYS/MONITORS (AC & DC) SINGLE PHASE

- 11-pin plug-in or DIN rail mount relay (with plug-in terminals)
- 250VAC/10A relay
- CE & C-tick approved



Part No #	Description	No. Of Contacts	Type	Product Series
SP103/*-SP	Current Monitor 5A AC/DC, over or under, trip delay 0.1-10 sec	1 C/O	Plug-in	SLIMLINE
P100PD*S3	Same as SP100 & SP103	1 C/O	DIN rail	SLIMLINE-D
SP104/*-SP	Current Monitor for DC shunt, over or under, trip delay 0.1-10 sec	1 C/O	Plug-in	SLIMLINE
P101PD*S3	Same as SP101 & SP104	1 C/O	DIN rail	SLIMLINE-D
SP121/*-SP	Current window comparator DC, over & under	1 C/O	Plug-in	SLIMLINE
SP123/*-SP	Current window comparator AC, over & under, trip delay 0.1-10 sec	1 C/O	Plug-in	SLIMLINE
P120PD*S3	Same as SP123	1 C/O	DIN rail	SLIMLINE

* Specify voltage: 12 or 24 VDC, 24, 110, 240, or 415 VAC

VOLTAGE RELAYS/MONITORS (AC & DC) & FREQUENCY RELAYS

- 11-pin plug-in or DIN rail mount relay (with plug-in terminals)
- 250VAC/10A relay
- CE & C-tick approved



Part No #	Description	No. Of Contacts	Type	Product Series
SP201/*-SP	Voltage Monitor, 1-Ph, trip delay 0.1-10sec (replaces SP200)	1 C/O	Plug-in	SLIMLINE
P200PD*S3	Same as SP200 & SP201	1 C/O	DIN rail	SLIMLINE-D
SP221/*-SP	Voltage window comparator, 1-Ph, over & under, Trip delay 0.1-10sec (replaces SP220)	1 C/O	Plug-in	SLIMLINE
P220PD*S3	Same as SP221	1 C/O	DIN rail	SLIMLINE
SP231/**-SP	3-Phase version of SP221 (SP231 replaces SP230)	1 C/O	Plug-in	SLIMLINE
P230PD**S3	Same as SP231	1 C/O	DIN rail	SLIMLINE
SP320/**-SP	Frequency Monitor, over & under, 42-58Hz	1 C/O	Plug-in	SLIMLINE

* Specify voltage: 12 or 24 VDC, 24, 110, 240, or 415 VAC

** Specify voltage: 110, 240, or 415 VAC

3-PHASE SEQUENCE/FAILURE/ASYMMETRY RELAYS

- Protects against phase imbalance or asymmetry, phase loss or phase reversal
- Sensitivity (NPS) Adjustment
- Insensitive to regenerated EMF
- Loss of Neutral versions available on request
- CE & C-tick approved



Part No #	Description	No. Of Contacts	Type	Product Series
SP430/*-SP	SPDT with relay LED	1 C/O	Plug-in	SLIMLINE
SP430/*-DP	DPDT with relay LED	2 C/O	Plug-in	SLIMLINE
AP430/*S	SPDT with relay & power LED	1 C/O	DIN rail	A-LINE
AP430/*D	DPDT with relay & power LED	2 C/O	DIN rail	A-LINE
P430PD400AS1	SPDT, 380-415VAC, adjustable delay on trip 1-10 sec	1 C/O	DIN rail	SLIMLINE-D
P430PD400AS2	SPDT, 380-415VAC, adjustable delay on recover 1-100sec	1 C/O	DIN rail	SLIMLINE-D

* Specify voltage: 110, 115, 220, 380, 415, or 525 VAC



Trade Price List

PROCESS CONTROL

LEVEL CONTROLS

- Level control of conductive liquids – relay & probes
- Sewerage & Borehole pump control
- Level control of non-conductive liquids or granular materials – relay for use with capacitive proximity switches
- CE & C-tick approved



Part No #	Description	No. Of Contacts	Type	Product Series
SC130/*-SP	Liquid Level Relay - high & low level, filling or draining functions	1 C/O	Plug-in	SLIMLINE
SC130/*-DP	Liquid Level Relay - high & low level, filling or draining functions	2 C/O	Plug-in	SLIMLINE
AC130/*S	Same as SC130	1 C/O	DIN rail	A-LINE
AC130/*D	Same as SC130	2 C/O	DIN rail	A-LINE
C130PD*D	Same as SC130	2 C/O	DIN rail	SLIMLINE-D
SC230/*-SP	Level Relay for non-conductive material - high & low level, filling or draining functions	1 C/O	Plug-in	SLIMLINE
CP-3C	Probe holder with screw cap, IP65, 1.5" BSP, with 3 screw-in 1 metre SS316 coated rods			DETECHTOR
CP-2C	As CP-3C but with 2 rods			DETECHTOR
CP-1C	As CP-3C but with 1 rod			DETECHTOR
EP1/CEXT	Extension rods 1 metre			DETECHTOR

* Specify voltage: 12 or 24 VDC, 24, 110, 240, or 415 VAC

CONTROL RELAYS - TACHO RELAYS, THERMISTOR RELAYS FLIP FLOP RELAYS

- CE & C-tick approved



Part No #	Description	No. Of Contacts	Type	Product Series
SC300/*-SP	Relay for NAMUR sensors	1 C/O	Plug-in	SLIMLINE
SC320/*-SP	Tachometer NAMUR relay	1 C/O	Plug-in	SLIMLINE
C320PD*S2	SC320 with 4-20mA	1 C/O	DIN rail	SLIMLINE-D
SC510/*-SP	Thermistor relay	1 C/O	Plug-in	SLIMLINE
C510S/*-DP	Thermistor relay	2 C/O	DIN rail	SLIMLINE-D
SC511/*-SP	Thermistor relay with test and reset pushbuttons	1 C/O	Plug-in	SLIMLINE
SC611/*-SP	Flip flop relay with memory	1 C/O	Plug-in	SLIMLINE

* Specify voltage: 12 or 24 VDC, 24, 110, 240, or 415 VAC

COUNTERS

Part No #	Description	No. Of Contacts	Type	Product Series
CC701/240/DSP	Preselect Counter 4 digit, add/subtract 48x48 240VAC	1 C/O	Flush mount	COUNTALINE
SC700/*SP	Preselect Counter 3 digit, add/subtract SPDT relay	1 C/O	Plug-in	COUNTALINE

* Specify voltage: 12 or 24 VDC, 24, 110, 240, or 415 VAC

POWER SUPPLIES

Part No #	Description	No. Of Contacts	Type	Product Series
SC900/240/24A	Power supply 240VAC/24VAC, 150mA unregulated		Plug-in	SLIMLINE
SC900/240/24D	Power supply 240VAC/24VDC, 120mA unregulated		Plug-in	SLIMLINE
SC900/240/24R	Power supply 240VAC/24VDC, 100mA regulated		Plug-in	SLIMLINE
SC900/240/12R	Power supply 240VAC/12VDC, 150mA regulated		Plug-in	SLIMLINE



Trade Price List

TIMERS - ELECTRONIC

MULTI-FUNCTION 48X48 1/16 DIN PANEL MOUNT/PLUG-IN

- Delayed-ON, Interval, Recycling functions
- 0.1 sec to 100 hours
- DPDT relay (5A per contact)
- Polarity protection
- Short housing (58mm)
- Power ON & Relay ON LEDs
- Panel mount bezel included
- Plug-in replacement for other makes
- CE & C-tick approved



Part No #	Description	No. Of Contacts	Type	Product Series
48T100-11-*	Multi-function, start, reset & gate inputs (11-pin)	2 C/O	Plug-in/flush	48x48 TIMERS
48T101-08-*	Delayed ON / Interval functions, start on power-up (8-pin)	2 C/O	Plug-in/flush	48x48 TIMERS

* Specify voltage: 12VDC, 24 VAC/DC, or 100-240VAC

MULTI-FUNCTION 22.5mm DIN RAIL

- Delayed-ON, Interval, Recycling functions
- 0.1 sec to 100 hours
- DPDT relay (5A per contact)
- Slim housing (22.5mm)
- Power ON & Relay ON LEDs
- CE & C-tick approved



Part No #	Description	No. Of Contacts	Type	Product Series
AT100/*D	Delayed ON, Interval or Recycling functions, start on power-up (i.e. Power-on reset)	2 C/O	DIN rail	A-LINE
AT110/*S	Delayed ON or Interval functions, hold or pulse reset via contact, NPN or PNP switch	1 C/O	DIN rail	A-LINE

* Specify voltage: 12 or 24 VDC, 24, 110, 240 or 415 VAC

ASYMMETRICAL RECYCLING 22.5mm DIN RAIL

- Asymmetrical recycling (ON or OFF cycle first)
- DPDT relay (5A per contact)
- Slim housing (22.5mm)
- Power ON & Relay ON LEDs
- Version with One-shot function and 0.1 sec to 10 hours available on request
- CE & C-tick approved



Part No #	Description	No. Of Contacts	Type	Product Series
AT200/*D	0.2 sec to 4 hours, DPDT	2 C/O	DIN rail	A-LINE

* Specify voltage: 12 or 24 VDC, 24, 90-250 or 415 VAC

STAR-DELTA TIMERS

- Star time up to 60 secs (adjustable)
- Pause time 75 msec
- Relay rests in "centre-off" position during pause and power-off state
- 5A relay output
- Star & Delta LEDs
- CE & C-tick approved




Part No #	Description	No. Of Contacts	Type	Product Series
ST130/*-S	Pause time 75 msec fixed	1 C/O	Plug-in	SLIMLINE
AT130/*AS	Pause time 75 msec fixed	1 C/O	DIN rail	A-LINE

* Specify voltage: 110, 240 or 415 VAC




TEMPERATURE CONTROLLERS

- PID or ON/OFF Control
- Dual Display of measured temperature & set point
- 48x48 1/16 DIN panel mount with plug-in terminals
- 85-265 VAC/DC
- Auto-tune PID or ON/OFF control
- Cold-junction compensated
- 8A relay control, Solid State or 4-20mA Drive
- Programme lock facility
- High & Low alarm relay (TC515 & TC600 only)
- CE &  C-tick approved



Part No #	Description	Control Output	Type	Product Series
TC410-K0-240ER	K- type thermocouple, 8A Relay control, 3 digit dual display – no alarms	1 C/O	Flush mount	THERMOLINE
TC410-P0-240ER	PT100/RTD, 8A Relay control 3 digit dual display – no alarms	1 C/O	Flush mount	THERMOLINE
TC515-U0-024ERR	Programmable sensor type, high & low alarm relay & control relay, dual 3 digit display, 24-48VAC/DC	1 C/O	Flush mount	THERMOLINE
TC515-U0-240ERR	Programmable sensor type, high & low alarm relay & control relay, dual 3 digit display,	1 C/O	Flush mount	THERMOLINE
TC515-U0-240ESR	TC515 with Solid State Relay (SSR) drive	8V / 10mA	Flush mount	THERMOLINE
TC600-U0-240EBR	TC515 features with dual 4 digit display, 4-20mA o/p & RS485 comms.	4-20mA	Flush mount	THERMOLINE
TC600-U0-240ERR	TC600 with 8A Relay control.	1 C/O	Flush mount	THERMOLINE
TC600-U0-240ESR	TC600 with Solid State Relay (SSR) drive	8V / 10mA	Flush mount	THERMOLINE

MOTOR/PUMP PROTECTION

- Borehole pump protection
- Auto-calibrating
- Overload (blocking/closed valve) protection
- Underload (running dry) protection with auto re-start timer
- Max 4kW without external CT
- Over & under voltage protection
- Phase sequence/failure monitoring
- Liquid Level control
- CE &  C-tick approved



Part No #	Description	No. Of Contacts	Type	Product Series
MP820/240AS	Motor Protection Relay 240VAC (1 Ph)	1 C/O	DIN rail	A-LINE
MP830/415AS	Motor Protection Relay 400-415VAC (3 Ph)	1 C/O	DIN rail	A-LINE

DIGITAL TIME SWITCHES

- Display in Hours, minutes & seconds (on LCD)
- 6 Programs
- 16A c/o relay contact




Part No #	Description	No. Of Contacts	Type	Product Series
PET-010/024VDC	Weekly Programmable Time Switch 24VAC/DC	1 C/O	DIN rail	
PET-010/240VAC	Weekly Programmable Time Switch 240VAC	1 C/O	DIN rail	



Trade Price List

PROXIMITY SWITCHES - INDUCTIVE

- Rhomberg quality and reliability
- Inductive (metal) sensing
- Black cap, cables & LED colour coded for type
- Moulded 2m colour coded cable with fishtail (plug versions avail on request) - IP67
- Normally Open (NO) has RED LED; Normally Closed (NC) has GREEN LED.
- CE and  C-tick approved
- Interchangeable with other makes



INDUCTIVE DC PNP, 3 OR 4-WIRE (YELLOW CABLE) & INDUCTIVE DC NPN, 3 OR 4-WIRE (GREEN CABLE)

10-60 VDC Overall Length = 65mm (M12) or =60mm (M18, M30, M40)
Reverse polarity & Short circuit protected (NPN & PNP) 400mA max load current

Part No #	Diameter mm	Sensing Distance	Shielding	Product Series
RI*-1202F-**	M12x1	2mm	Shielded	DETECHTOR
RI*-1204S-**	M12x1	4mm	Unshielded	DETECHTOR
RI*-1805F-**	M18x1	5mm	Shielded	DETECHTOR
RI*-1805F-NX	M18x1	5mm	Shielded	DETECHTOR
RI*-1808S-**	M18x1	8mm	Unshielded	DETECHTOR
RI*-1808S-NX	M18x1	8mm	Unshielded	DETECHTOR
RI*-3010F-**	M30x1.5	10mm	Shielded	DETECHTOR
RI*-3010F-NX	M30x1.5	10mm	Shielded	DETECHTOR
RI*-3015S-**	M30x1.5	15mm	Unshielded	DETECHTOR
RI*-3015S-NX	M30x1.5	15mm	Unshielded	DETECHTOR
RI*-4020F-**	M40x1.5	20mm	Shielded	DETECHTOR
RI*-4020F-NX	M40x1.5	20mm	Shielded	DETECHTOR
RI*-4025S-**	M40x1.5	25mm	Unshielded	DETECHTOR
RI*-4025S-NX	M40x1.5	25mm	Unshielded	DETECHTOR

- Specify 4 for PNP or 5 for NPN

** Specify NO or NC NX (4 wire NO & NC)

INDUCTIVE AC OR DC, 2-WIRE (RED CABLE)

20-250 AC/DC Overall Length = 60mm

Part No #	Diameter mm	Sensing Distance	Shielding	Product Series
RIE-1805F-**	M18x1	5mm	Shielded	DETECHTOR
RIE-1808S-**	M18x1	8mm	Unshielded	DETECHTOR
RIE-3010F-**	M30x1.5	10mm	Shielded	DETECHTOR
RIE-3015S-**	M30x1.5	15mm	Unshielded	DETECHTOR
RIE-4020F-**	M40x1.5	20mm	Shielded	DETECHTOR
RIE-4025S-**	M40x1.5	25mm	Unshielded	DETECHTOR

** Specify NO or NC

INDUCTIVE NAMUR, 2-WIRE (BLUE CABLE)


Designed to DIN 19234 Overall Length = 40mm
Interfaces with Rhomberg SC230 or SC300 relay

Part No #	Diameter mm	Sensing Distance	Shielding	Product Series
RI0-1202F-NC	M12x1	2mm	Shielded	DETECHTOR
RI0-1204S-NC	M12x1	4mm	Unshielded	DETECHTOR
RI0-1805F-NC	M18x1	5mm	Shielded	DETECHTOR
RI0-1808S-NC	M18x1	8mm	Unshielded	DETECHTOR
RI0-3010F-NC	M30x1.5	10mm	Shielded	DETECHTOR
RI0-3015S-NC	M30x1.5	15mm	Unshielded	DETECHTOR
RI0-4020F-NC	M40x1.5	20mm	Shielded	DETECHTOR
RI0-4025S-NC	M40x1.5	25mm	Unshielded	DETECHTOR



Trade Price List

PROXIMITY SWITCHES - CAPACITIVE

- Rhomberg quality and reliability
- Capacitive (most material) sensing
- Adjustable sensitivity
- White cap, cables & LED colour coded for type
- Moulded 2m colour coded cable with fishtail (plug versions avail on request)
- Normally Open (NO) has RED LED; Normally Closed (NC) has GREEN LED.
- IP67
- CE and  C-tick approved
- Interchangeable with other makes



CAPACITIVE DC PNP, 3-WIRE (YELLOW CABLE) & CAPACITIVE DC NPN, 3-WIRE (GREEN CABLE)

- 10-60 VDC
- Overall Length = 80mm
- Reverse polarity & Short circuit protected (NPN & PNP)
- 400mA max load current

Part No #	Diameter mm	Sensing Distance	Shielding	Product Series
RC*-1805F-**	M18x1	5mm	Shielded	DETECHTOR
RC*-1810S-**	M18x1	10mm	Unshielded	DETECHTOR
RC*-3010F-**	M30x1.5	10mm	Shielded	DETECHTOR
RC*-3020S-**	M30x1.5	20mm	Unshielded	DETECHTOR

* Specify 4 for PNP or 5 for NPN ** specify NO or NC

CAPACITIVE AC OR DC, 2-WIRE (RED CABLE)

20-250 AC/DC
Overall Length = 80mm

Part No #	Diameter mm	Sensing Distance	Shielding	Product Series
RCE-1805F-**	M18x1	5mm	Shielded	DETECHTOR
RCE-1810S-**	M18x1	10mm	Unshielded	DETECHTOR
RCE-3010F-**	M30x1.5	10mm	Shielded	DETECHTOR
RCE-3020S-**	M30x1.5	20mm	Unshielded	DETECHTOR

** Specify NO or NC

CAPACITIVE NAMUR, 2-WIRE (BLUE CABLE)

Designed to DIN 19234
Overall Length = 80mm
Interfaces with Rhomberg SC230 or SC300 relay

Part No #	Diameter mm	Sensing Distance	Shielding	Product Series
RCO-3010F-NC	M30x1.5	10mm	Shielded	DETECHTOR
RCO-3020S-NC	M30x1.5	20mm	Unshielded	DETECHTOR

BASES FOR SLIMLINE RELAYS

Shrouded terminals Accepts Slimline Retainer Clip Slim 38mm width



Part No #	Description
S2-B	8-pin DIN rail socket
S3-B	11-pin DIN rail socket



Trade Price List

STEEL ENCLOSURES

Part No #	Width	Height	Depth	Price \$
ST 2-315	200	300	150	P.O.A
ST 3-315	300	300	150	P.O.A
ST 3-320	300	300	200	P.O.A
ST 3-415	300	400	150	P.O.A
ST 3-420	300	400	200	P.O.A
ST 3-515	300	500	150	P.O.A
ST 3-520	300	500	200	P.O.A
ST 4-315	400	300	150	P.O.A
ST 4-320	400	300	200	P.O.A
ST 4-420	400	400	200	P.O.A
ST 4-520	400	500	200	P.O.A
ST 4-525	400	500	250	P.O.A
ST 4-620	400	600	200	P.O.A
ST 4-625	400	600	250	P.O.A
ST 5-520	500	500	200	P.O.A
ST 5-720	500	700	200	P.O.A
ST 5-725	500	700	250	P.O.A
ST 6-420	600	400	200	P.O.A
ST 6-430	600	400	300	P.O.A
ST 6-620	600	600	200	P.O.A
ST 6-630	600	600	300	P.O.A
ST 6-825	600	800	250	P.O.A
ST 6-830	600	800	300	P.O.A
ST 6-1025	600	1,000	250	P.O.A
ST 6-1030	600	1,000	300	P.O.A
ST 6-1230	600	1,200	300	P.O.A
ST 8-830	800	800	300	P.O.A
ST 8-1030	800	1,000	300	P.O.A
ST 8-1230	800	1,200	300	P.O.A
*ST 8-630	800	600	300	P.O.A
*ST 10-820	1,000	800	200	P.O.A
*ST 10-830	1,000	800	300	P.O.A
*ST 10-1030	1,000	1,000	300	P.O.A
*ST 10-1230	1,000	1,200	300	P.O.A

*DENOTES DOUBLE DOOR

INCLUDES GEAR PLATE

OTHER TYPES AVAILABLE EX STOCK:

- "SB" - One Piece Reading Desks (Console Style)
- "AE" - Three Piece Reading Desk (Console Style)
- "AR8000" - Free Standing Large Enclosures
- "AR9000" - Extendible Large Enclosures
- "AR9000PC" - Computer Enclosure System

ACCESSORIES:

- Plinths
- Fans & Filters
- Anti Condensation Heaters
- Temperature Regulator
- Temperature & Moisture Regulator
- Plexiglass Window