



Application Note

M.P. Electronics

Cross Reference Sheet

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Cross Reference Listing	M.P. Electronics	ATC - Diversified	Timemark	SSAC	Crouzet (Syrelec)	SymCom	Macromatic
Phase Monitors							
8 Pin, SPDT	001-DVM-118	SLA-230-ASA	B247, 258B	PLM6405	PWRL230A, PWRS220A	201A (D/V)	PAP208, PAP240
	001-DVM-118	SLA-440-ASA	A257B, A258B	PLM9405	PWRL480A, PWRS440A	201A (D/V)	PAP480
	001-DVM-118	SLU-100-ASA	-----	PLMU11	-----	201A (D/V)	PMPU, PMPU-FA8
	001-DVM-118	SLD-230-ASA	-----	-----	-----	-----	PMPU-FA8X
12 Pin, DPDT	001-DVM-1212	SLA-230-ALA	-----	-----	-----	-----	-----
	001-DVM-1212	SLA-230-ALAU	-----	-----	-----	-----	-----
	001-DVM-1212	-----	-----	-----	-----	-----	PMPU-FA12
Surface Mount	002-230-123	SLA-230-ALE	-----	-----	-----	-----	-----
	002-480-123	SLA-440-ALE	-----	-----	-----	-----	-----
Duplex Alternators							
8 Pin, SPDT	008-120-10	ARA-120-ABA	261-S-120	ARP41	PJR110A	ALT-115-S	ARP120A6
	008-120-10S	ARB-120-ABA	261-ST-120	ARP41S	PJRS110A	ALT-115-S	ARP120A6R
	008-120-10SP	-----	-----	-----	-----	-----	-----
8 Pin, DPDT, Crosswired	008-120-11	ARA-120-ACA	261-DX-120	ARP43	PJR110A	ALT-115X	ARP120A3
	008-120-11S	ARB-120-ACA	261-DXT-120	ARP43S	PJRS110A	ALT-115-X-SW	ARP120A3R
	008-120-11SP	-----	-----	-----	-----	-----	-----
11 Pin, DPDT	008-120-12	ARA-120-ADA	261-D-120	ARP42	LJR2110A	-----	ARP120A2
	008-120-12S	ARB-120-ADA	261-DT-120	ARP42S	LJRS2110A	-----	ARP120A2R
	008-120-12SP	-----	-----	-----	-----	-----	-----
8 Pin, DPDT, Crosswired	008-120-13	ARA-120-AEA	-----	-----	-----	-----	ARP12-A5
	008-120-13S	ARB-120AEA	-----	-----	-----	-----	ARP120A5R
	008-120-13SP	-----	-----	-----	-----	-----	-----
Triplex Alternator	009-120-23	ARA-120-AFE	-----	-----	-----	-----	-----



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	MPE	DIVERSIFIED
Intrinsically Safe Relays	030-024-118	ISO-24-AFA
	030-120-118	ISO-120-AFA

	MPE	DIVERSIFIED	FORM	FIT	FUNCTION
Voltage Monitors	004-230-118	UOA-240-AFA	Different	Same	MPE=SPDT, Div=DPDT & Fixed Adjustment, Pinout Different
	004-230-118	UOA-240-AKA	Different	Same	MPE = SPDT, Div = DPDT, Pinout is Different
	004-230-118	UOA-240-ALA	Different	Same	MPE = SPDT, Div = DPDT & Knob Locknut, Pinout is Different
	004-230-118	VBA-240-AFA	Same	Different	MPE is Plug-in, Div is Surface Mounted, with Fixed Adjustment
	004-230-118	VBA-240-AKA	Same	Different	MPE unit is Plug-in, Div unit is Surface Mounted
	004-230-118	VBA-240-ALA	Same	Different	MPE is Plug-in, Div is Surface Mounted, with Knob Locknut
Phase Monitors					
8-Pin	001-DVM-118	SLA-230-ASA	Same	Same	MPE Unit has Over-Voltage Protection -Div does not
	001-DVM-118	SLD-230-ASA	Same	Same	Same
	001-DVM-118	SLA-440-ASA	Same	Same	MPE Unit has Over-Voltage Protection -Div does not
	001-DVM-118	SUA-440-ASA	Same	Same	MPE Unit has Over-Voltage Protection -Div does not
	001-DVM-118	SLD-440-ASA	Same	Same	Same
12-Pin	001-DVM-1212	SLA-230-ALA	Same	Different	Same
	001-DVM-1212	SLA-230-ALAU	Same	Different	Same
Surface Mount	002-230-123	SLA-230-ALE	Same	Same	Same
	002-230-123	PBC-230-ALE	Same	Same	MPE Unit has fixed Under & Over Voltage Settings
	002-230-123	SLC-230-ALE	Same	Same	Same
	002-230-123	SLD-230-ALE	Same	Same	Same
	002-230-123	SLE-230-ALE	Same	Same	MPE Unit does not have adjustable U.V. Drop-out
	002-230-123	SLH-230-ALE	Same	Same	MPE Unit does not have Adjustable Hysteresis
	002-230-123	SLM-230-ALE	Same	Same	MPE Unit does not have Frequency & Phase Shift
	002-480-123	SLA-440-ALE	Same	Same	MPE Unit has Over-Voltage Protection - Div does not
	002-480-123	PBC-480-ALE	Same	Same	MPE Unit has Fixed Under & Over Voltage Settings
	002-480-123	SLC-440-ALE	Same	Same	Same
	002-480-123	SLD-440-ALE	Same	Same	Same
	002-480-123	SLE-440-ALE	Same	Same	MPE Unit does not have U.V. Drop-out Adjustment
	002-480-123	SLH-440-ALE	Same	Same	MPE Unit does not have Adjustable Hysteresis
	002-480-123	SLM-440-ALE	Same	Same	MPE unit does not have frequency & phase shift



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		MPE		DIVERSIFIED	
Triplex Alternators	009-120-23	009-120-AFE	Same	Same	Same except MPE unit has switch for duplex/triplex operation
	009-120-23	009-120-AME	Same	Same	Same
	009-120-23	ARA-120-AHE	Same	Same	Same except MPE unit always locks out output #3 in duplex mode
	009-120-23	ARA-120-AJE	Same	Same	Same except MPE unit always alternates 1-2-3, 2-3-1, 3-1-2
	009-120-23P	ARA-120-AFE	Same	Different	MPE is plug-in, MPE unit has switch for duplex/triplex operation
	009-120-23P	009-120-AME	Same	Different	MPE is plug-in
	009-120-23P	ARA-120-AHE	Same	Different	MPE is plug-in, MPE unit always locks out the #3 in duplex mode
Time Delay Relays	009-120-23P	ARA-120-AJE	Same	Different	MPE is plug-in, MPE unit always alternates 1-2-3, 2-3-1, 3-1-2
	021-024-0010	TDC-024-AKA-010	Same	Same	Same
	021-024-0010	TDC-024-ALA-010	Same	Same	Div unit has knob lockout
	021-024-0010	TDC-024-AFA-010	Same	Same	Div unit has fixed delay for 10 seconds
	021-024-0010	TUC-024-AKA-010	Same	Same	Same
	021-024-0010	TUC-024-ALA-010	Same	Same	Div unit has Knob locknut
	021-024-0010	TUC-024-AFA-010	Same	Same	Div unit has fixed delay for 10 seconds
	021-024-0010	TBC-024-AA	Same	Same	Time on Div unit is dip switch selectable



**Application Note - Multitrode
to M.P. Electronics Part Number
Cross Reference Sheet**

<u>Level Probes:</u>		MPE	Multi-Trode			
Part Number	Part Number	Description	Spacing	MPE	M/T	
LP-7-1-50	0.2/1-10	Single Point Probe	N/A	50 feet	33 feet	
LP-19-3-50	0.5/3-10	Three Point Probe	6 inch	50 feet	33 feet	
LP-52-10-50	1.0/10-10	10 Point Probe	5 inch	50 feet	33 feet	
LP-61-10-50	1.5/10-10	10 Point Probe	6 inch	50 feet	33 feet	
LP-79-10-50	2.0/10-10	10 Point Probe	8 inch	50 feet	33 feet	
LP-97-10-50	2.5/10-10	10 Point Probe	10 inch	50 feet	33 feet	
LP-115-10-50	3.0/10-10	10 Point Probe	12 inch	50 feet	33 feet	
LP-7-1-100	0.2/1-30	Single Point Probe	N/A	100 feet	100 feet	
LP-19-3-100	0.5/3-30	Three Point Probe	6 inch	100 feet	100 feet	
LP-52-10-100	1.0/10-30	10 Point Probe	5 inch	100 feet	100 feet	
LP-61-10-100	1.5/10-30	10 Point Probe	6 inch	100 feet	100 feet	
LP-79-10-100	2.0/10-30	10 Point Probe	8 inch	100 feet	100 feet	
LP-97-10-100	2.5/10-30	10 Point Probe	10 inch	100 feet	100 feet	
LP-115-10-100	3.0/10-30	10 Point Probe	12 inch	100 feet	100 feet	

Notes: MPE Probes include Small Squeegee bracket and S hook except for Single-Point Probes



Application Note - Multitrode to M.P. Electronics Part Number Cross Reference Sheet

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MPE Part Number	Multi-Trode Part Number	Description
<u>Mounting Brackets:</u>		
LPB-1	MTAK-1	Sm. Brkt w/ S hook
LPB-2	MTAK-2	Lg. Brkt w/ S hook
<u>Intrinsically Safe Barrier:</u>		
ISB-10	MTISB10	10 Point Intrinsically Safe Barrier
<u>Level Probe Relay:</u>		
LPR-1	MTR3	Level Probe Relay, 120VAC
LPR-1	MTRA3	* Requires two LPR-1's, as each LPR-1 controls only one probe point.
<u>Indicating Controller:</u>		
LPC420		24VDC, 10 Probe inputs, 4-20mA output (for app.'s that don't need relay outputs)
LPC420R	MTIC3	120VAC, 10 Probe Inputs, 4-20 mA output, 10 Output Relays
LPC420R	MTIC5	24VDC, 10 Probe Inputs, 4-20 mA output,

Order from: **C A Briggs Company**; 622 Mary Street; Suite 101 - Warminster, PA 18974
Phone: 267-673-8117 - Fax: 267-673-8118; E-Mail: Sales@cabriggs.com - www.cabriggs.com



**Application Note - Multitrode
to M.P. Electronics Part Number
Cross Reference Sheet**

MPE	Multi-Trode				
Part Number	Part Number	Description			
<u>Back-up Controllers:</u>					
Duplexer p/n	SAFE-FS	120VAC, Duplex, SCADA-Ready, Level Probe Controller that can			
010-120-122P		be used with two PMR's (Pump monitoring Relays) if needed.			
ISD-X	SAFE-FS	120VAC, Duplex, Intrinsically Safe, SCADA-Ready, Level Probe Controller that			
Panel Mt. - P		can be used with two PMR's (Pump monitoring Relays) if needed.			
DinRail - D		Optional Ethernet Port - Comes standard with RS-232 Serial Port.			
Surface Mt. - S					
<u>Simple 2 Pump Controller:</u>					
Duplexer	MTDPC3	120VAC, Duplex, SCADA-Ready, Level Probe / Float Controller			
ISD-X	MTDPC3	120VAC, Duplex, Intrinsically Safe, SCADA-Ready, Level Probe/Float Controller			
SC100	MTDPC3	120VAC, Duplex Level Controller w/ 4-20 mA level input signal			
<u>Advanced 2 Pump Controller:</u>					
SC1000	MT2PC3	120VAC, Selectable 1 - 3 Pumps, RS232 SCADA Ready, Optional Ethernet Port			
SC2000-00	MT2PC3	120VAC, Selectable 1 - 4 Pumps. RS232 SCADA Ready, Optional Ethernet Port			



Application Note - Multitrode to M.P. Electronics Part Number Cross Reference Sheet

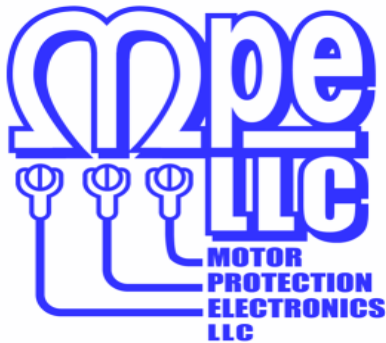
MPE Part Number	Multi-Trode Part Number	Description
<u>Advanced 3 Pump Controller:</u>		
SC1000	MT3PC3	120VAC, Selectable 1 - 3 Pumps, RS232 SCADA Ready, Optional Ethernet Port
SC2000-00	MT3PC3	120VAC, Selectable 1 - 4 Pumps. RS232 SCADA Ready, Optional Ethernet Port
<u>Advanced 2 Pump Controller for VFD Application:</u>		
SC2000-20	MT2PCVFD3	120VAC, Selectable 1 - 4 Pumps. RS232 SCADA Ready, Optional Ethernet Port
<u>Advanced 3 Pump Controller for VFD Application:</u>		
SC2000-30	MT3PCVFD3	120VAC, Selectable 1 - 4 Pumps. RS232 SCADA Ready, Optional Ethernet Port
<u>Pump Station Manager:</u>		
SC2000-XX	MultiSmart	The SC2000-XX can perform many of the functions of the MultiSmart Controller, and unlike the MultiSmart Controller, the features within the SC2000-XX are all available to the customer, and do not have to be purchased individually.



Application Note - Xylem-Flygt to M.P. Electronics Part Number Cross Reference Sheet

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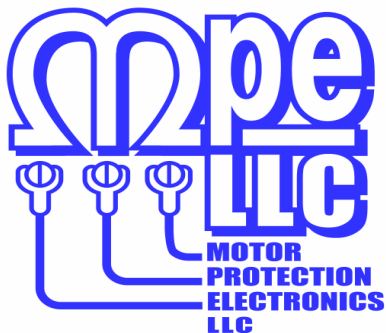
<u>FLYGT P/N</u>	<u>MPE P/N</u>	<u>Description</u>
14-403184	008-120-12	Alternator, 120V, DPDT
14-403185	008-120-12S	Alternator, 120V, DPDT, w/ Lead Select Switch
14-403186	008-120-13SP	Alternator, 120V, Cross Wired, W/ PTT & Lead Select Sw.
14-403187	001-DVM-118	Phase Monitor, 230V, 8 Pin
14-403188	001-DVM-118	Phase Monitor, 480V, 8 Pin
14-403189	004-230-118	Voltage Monitor, 230V, 8 Pin
14-403190	021-120-0010	Time Delay Relay, 120V, 1-10 Seconds
14-403191	021-120-0060	Time Delay Relay, 120V, 6-60 Seconds
14-403193	010-120-122P	Duplexer Controller
14-403196	010-120-121P	Simplex Controller
14-403202	008-120-10	Alternator, 120V, SPDT
14-403203	008-120-11	Alternator, 120V, Cross-Wired
14-403212	001-DVM-1212	Phase Monitor, 230V, 12 Pin
14-403213	001-DVM-1212	Phase Monitor, 480V, 12 Pin
14-403214	001-DVM-1212	Phase Monitor, 480V, 12 Pin
14-403220	009-120-23P	Triplex Alternator, Plug-In
14-403222	030-120-118	Intrinsically Safe Relay, 120V
14-403235	ISD-P	Panel Mount Intrinsically Safe Duplex Controller
14-405081	BOAC-001	Battery Operated Charger and Alarm Unit
14-407113	PMR2	Direct Replacement for 24V MiniCas
14-407129	PMR2	MPE Version of Mini-Cas120
14-407123	RB08-PC	8 Pin Socket w/ Pressure Clamp Terminals
14-407124	SD12-PC	12 Pin Rect. Socket w/ Pres.Clamp Terminals
14-407130	P3GA11	Reverse mounted Socket for Mini-cas 120



Application Note - Xylem-Flygt to M.P. Electronics Part Number Cross Reference Sheet

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<u>FLYGT P/N</u>	<u>MPE P/N</u>	<u>Description</u>
14-414000	LP-7-1-50	Single Pt.Probe w/ 50' cable
14-414001	LP-19-3-50	3-Pt. Probe w/ 50' cable
14-414002	LP-52-10-50	10 Pt. Probe, 5"spacing, 50' cable
14-414003	LP-61-10-50	10 Pt. Probe, 6"spacing, 50' cable
14-414004	LP-79-10-50	10 Pt. Probe, 8"spacing, 50' cable
14-414005	LP-97-10-50	10 Pt. Probe, 10"spacing, 50' cable
14-414006	LP-115-10-50	10 Pt. Probe, 12"spacing, 50" cable
14-414009	LP-7-1-100	Single Pt. Probe w/ 100' cable
14-414010	LP-19-3-100	3-Pt. Probe w/ 100' cable
14-414011	LP-52-10-100	10 Pt. Probe, 5"spacing, 100'cable
14-414012	LP-61-10-100	10 Pt. Probe, 6"spacing, 100' cable
14-414013	LP-79-10-100	10 Pt. Probe, 8"spacing, 100' cable
14-414014	LP-97-10-100	10 Pt. Probe, 10"spacing, 100' cable
14-414015	LP-115-10-100	10 Pt. Probe, 12"spacing, 100" cable
14-414007	LPB-1	Sm. Probe Mtg Brkt w/ Sq.&S hook
14-414008	LPB-2	Lg. Probe Mtg Brkt w/ Sq.& S hook
14-414016	LPR-1	Level Probe Relay
14-414017	ISB-10	10 Point Intrinsically Safe Barrier



Application Note - Xylem-Flygt to M.P. Electronics Part Number Cross Reference Sheet

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Discontinued

<u>FLYGT P/N</u>	<u>MPE P/N</u>	<u>Description</u>
14-403192	010-120-101P	See App Note for Conversion to MPE p/n 030-120-118
14-403194	010-120-123	Obsolete
14-403195	010-120-121	Obsolete
14-403199	004-120-118	Obsolete
14-403204	009-120-23	Obsolete
14-403215	091-120-103	Obsolete
14-403217	010-120-123P	Obsolete
14-403218	009-120-34	Obsolete
14-407122	RBO8	Obsolete
14-403182	008-024-12	Alternator, 24V, DPDT
14-403183	008-024-12S	Alternator, 24V, DPDT, w/ Lead Select Switch
14-403200	008-024-10	Alternator, 24V, SPDT
14-403201	008-024-11	Alternator, 24V, Cross-Wired
14-403205	021-024-0010	Time Delay Relay, 120V, 6-60 Seconds
14-403198	021-024-0060	Time Delay Relay, 24V, 6-60 Seconds
14-403219	009-120-34P	Quad Alternator, Plug-In
14-403221	030-024-118	Intrinsically Safe Relay, 24V
14-403225	PS100	24VDC, 100mA Power Supply
14-405082	025-120-105	Flasher
14-403249	SC100-16	SC100, 0-16ft. Level Range (Flygt Only)
14-403250	SC100-32	SC100, 0-32ft. Level Range (Flygt Only)
14-407121	RB11-PC	11 Pin Socket w/ Pressure Clamp Terminals
14-500057	GCM500	Ground Check Relay