

## Arjay Engineering

Price List  
Effective: March 1, 2003

### CAPACITANCE INSTRUMENTS

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<b>Level Instruments</b>		
2000	Level-Ease Series (remote mount) -two relay setpoints -four relay setpoints -continuous monitors -multi tank configurations - single or dual Probe monitor	2
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The **Level-Ease 2000** control unit is mounted remote from the tank via 2 conductor shielded cable using the **ARJAY PMC** card in the probe head. This provides operator and electrical installation safety and controls. The control unit can be ordered to suit the application needs. The base unit is ordered and each feature is added on through the following work sheet.

Level-Ease 2000 Work Sheet		
<b>Part 1: Control Unit (includes pulse card for probe(s))</b>		
code	base unit	price
2	Arjay Level-Ease 2000 Capacitance Level monitor	
	code	probe input and controller mounting
	1	single probe input (stand alone unit, includes keypad/display)
	2	dual probe input (stand alone unit, includes keypad/display)
	3	single probe input (multi-tank mounting, requires calibrator)
	4	dual probe input (multi-tank mounting, requires calibrator)
	code	description (output isolated)
	0	no 4-20 mA output(s)
	1	4-20 mA output (includes on output per probe unit)
	code	relay output, 10amp@120vac, SPDT, dry, full differential
	0	no relays
	2	two independent relays
	4	four independent relays (relay to probe input is user)
	code	power input
	0	24 vdc, .5 amp
	1	115 vac, 50/60 Hz
	2	230 vac, 50/60 Hz
	code	unit enclosure
	0	no enclosure (subplate mounted)
	1	type 4 X polycar w/ window
	2	type 4 X polycar no window
	3	other

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2      \_      \_      \_      \_      \_

Add a calibrator (if necessary) and probe from Part 2 & 3.

**Part 2: Calibrator (Required for above 23XX and 24XX models only)**

- A00069      Portable Calibrator (9vdc battery) with display
- A00070      Wall mount Calibrator/Scanner with display  
 can connect up to 100 units with RS-485 (2 wire)

**Part 3: Probe (most typical configuration, other styles available - See Level Probe Sheet**

PAA-XXXX-Z For straight walled metal tanks up to 12 feet+A618  
3/4" npt, 316SS process connection  
Teflon coated, explosion proof  
(i.e. PAA-12IN-Z = 12" probe)

PBA-XXXX-Z Heavy Duty Probe  
For bulk materials or high agitation  
1" npt, 5/8" diameter  
(i.e. PBA-12IN-Z = 12" probe)

PJA-XXXX-Z For non-metallic and horizontal tanks  
2" npt, 316 SS process connection  
316 SS concentric shield for probe  
Teflon coated probe, explosion proof

For plastic tanks with corrosive chemicals, a standard duty probe with a SS grounding SPIRAP and Kynar protection tube is available

**Flexible probes, alternate materials, and various tank connections available**

**Type 4X fibreglass reinforced polycarbonate enclosures for use with multi-tank units.**  
(size will be determined by options)

A00353 20" x 16"  
will house up to 5 x 23XX or 24XX series units

A00354 28" x 20"  
will house up to 14 x 23XX or 24XX series units

A00355 40" x 32"  
will house up to 36 x 23XX or 24XX series units

**C. Option**

A00071 Intrinsic Safety Barrier  
installed at 9830 controller, makes the sensor  
intrinsically safe

## Model 9820 - Level Switch

This point alarm will actuate a relay on the presence or absence of material on the probe. The setpoint can be adjusted to alarm anywhere along the length of an Arjay probe. The differential feature allows the relay to cycle on and off between two distinct points along the length of one probe.

The electronics is explosion proof and is mounted directly on the probe.

### A. Electronics

	<b>Input voltage</b>	<b>X-P rating</b>
A00225	12vdc	Group C, D
A00226	12vdc	Group B
A00227	24vdc	Group C, D
A00228	24vdc	Group B
A00229	110vac	Group C, D
A00230	110vac	Group B
A00231	220vac	Group C, D
A00232	220vac	Group B

### B. Probe

PEA-XXXX-Z	Standard probe For straight walled tanks 3/4" npt, 316SS process connection Teflon coated, explosion proof (i.e. PEA-12IN-Z = 12" probe)
PFA-XXXX-Z	Heavy Duty Probe For bulk materials or high agitation 1" npt, 5/8" diameter (i.e.. PFA-12IN-Z - 12" probe)

## Model 9830 - Remote Level Switch

This point alarm will actuate a relay on the presence or absence of material on the probe. The setpoint can be adjusted to alarm anywhere along the length of an Arjay probe. The differential feature allows the relay to cycle on and off between two distinct points along the length of one probe.

The electronics is remote from the probe up to 1 km using the Arjay PMC Card

### A. Electronics

	<b>Input voltage</b>	<b>X-P rating</b>
A00301	24vdc	Group C, D
A00302	24vdc	Type 4X
A00303	110vac	Group C, D
A00304	110vac	Type 4X
A00305	220vac	Group C, D
A00306	220vac	Type 4X

### B. Probe

PAA-XXXX-Z	Standard probe For straight walled tanks 3/4" npt, 316SS process connection Teflon coated, explosion proof (i.e. PAA-12IN-Z = 12" probe)
PBA-XXXX-Z	Heavy Duty Probe For bulk materials or high agitation 1" npt, 5/8" diameter (i.e. PBA-12IN-Z = 12" probe)

## Model 9080 - Level Transmitter

This probe mounted transmitter provides a 4-20 mA output over the calibrated range of the probe. The input voltage is 24 vdc. Calibration is by a direct adjustment on the electronics or with the ease of the 2000-CAL Handheld or 2000-CAP Scanner.

### A. Electronics

	<b>Input voltage</b>	<b>X-P rating</b>
A00036	24vdc	Group B

### B. Probe

PCA-XXXX-Z      Standard probe  
For straight walled tanks  
3/4" npt, 316SS process connection  
Teflon coated, explosion proof  
(i.e. PCA-12IN-Z = 12" probe)

PDA-XXXX-Z      Heavy Duty Probe  
For bulk materials or high agitation  
1" npt, 5/8" diameter  
(i.e. PDA-12IN-Z = 12" probe)

### Optional

2000-CAL      Portable Calibrator (9vdc battery) with display  
2000-CAP      Wall mount Calibrator/Scanner with display  
can connect up to 100 units with RS-485 (2 wire)

## Standard Capacitance Level Probe Ordering

Other materials and configurations available - Contact Factory.

	<u>Probe Type</u>	<u>Entrance Fitting</u>	<u>Probe Length</u>	<u>Length Units</u>	<u>Options</u>	<u>Special Configuration</u>
Code:	P	1	2	-	3	4 - 5 - 6
Example:	P	A	A	-	36	IN - D10 - Z

1	Probe Type (316SS fitting)
	<b>TFE Coated Rigid Probes</b>
A	- Remote Standard, 3/4" NPT
J	- Remote Concentric Shielded, 2" NPT
B	- Remote Heavy Duty, 1" NPT
C	- Integral 9080 Model, Std. 3/4"
K	- Integral 9080 Concentric Shielded, 2" NPT
D	- Integral 9080 Model, HD, 1"
E	- Integral 9820 Model, Std. 3/4"
L	- Integral 9820 Concentric Shielded, 2" NPT
F	- Integral 9820 Model, HD, 1"
	<b>Flexible Probes</b>
G	- Flex, PVC Coated Probe, 2"
H	- Flex, Tefzel Coated Probe, 2"

2	Entrance Fitting Adapters
A	- As provided above
B	- 1" NPT, 316 SS
C	- 1.5" NPT, 316 SS
D	- 2" NPT, 316 SS
E	- 1" 150# Flange, 316 SS
F	- 1.5" 150# Flange, 316 SS
G	- 2 " 150# Flange, 316 SS
H	- 3" 150# Flange, 316 SS
J	- 4" 150# Flange, 316 SS
K	- 1.5" Tri-Clamp, 316 SS
L	- 2" Tri-Clamp, 316 SS
M	- Wall Bracket

Continued...

<b>3</b>	<b>Probe Length - Price per inch</b> Standard (Std.) Concentric Shielded Heavy Duty (HD) Flex, PVC Coated Flex, Tefzel Coated <b>Probe Length - Price per millimeters</b> Standard (Std.) Concentric Shielded Heavy Duty (HD) Flex, PVC Coated Flex, Tefzel Coated
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<b>4</b>	<b>Probe Length Units</b> <b>IN</b> - Inches <b>MM</b> - Millimeters
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<b>5</b>	<b>Options</b> - Input Letter for Option, Blank without <b>Rigid Probe Options:</b> <b>B</b> - Welding of Probe fitting to Flange for full penetration <b>D</b> - Inactive Sheath, 316 SS (specify length)  <b>E</b> - Spirap, 316 SS  <b>F</b> - Kynar Protection Tube  <b>G</b> - PVC Protection Tube  <b>H</b> - Potted Probe Head w Remote PMC <b>N</b> -Probe bend - distance from fitting & degree of bend must be specified <b>Flexible Probe Options:</b> <b>B</b> - Welding of Probe fitting to Flange for full penetration <b>E</b> - Spirap, 316 SS  <b>J</b> - 316 SS Weight <b>K</b> - SS Turn Buckle <b>L</b> - Galvanized Turnbuckle <b>M</b> -Inactive sheath
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<b>6</b>	<b>Special Configuration</b> <b>X</b> - contains Special Configuration per description <b>Z</b> - Probe is complete
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<b>7</b>	<b>Production Code</b> Leave Blank- used by factory
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## Model 9820-OWS - Oil/Water Separator Level Alarm

This single point alarm will actuate a relay when the oil/water interface in a separator passes to within 4" of the tip of the probe. The set point depth is determined by the length of the probe. The probe is 316SS A332nto the probe.

### A. Electronics

	<b>Input voltage</b>	<b>X-P rating</b>
A00275	12 vdc	Group C, D
A00276	12 vdc	Group B
A00277	24vdc	Group C, D
A00278	24vdc	Group B
A00279	110vac	Group C, D
A00280	110vac	Group B
A00281	220vac	Group C, D
A00282	220vac	Group B

### B. Probe

PEA-L1XX-D(L2)-Z Standard probe with sheath  
L1 = Probe Length, L2 = probe length less 4"  
3/4" npt, 316SS process connection  
3/8" diameter Teflon coated, SS probe  
1/2" 316SS inactive sheath to within 4" of probe tip  
(i.e. PEA-12IN-D8IN-Z = 12" probe)

## Model 9830-OWS - Oil/Water Separator Level Alarm

This single point alarm will actuate a relay when the oil-water interface in a separator passes to within 4" the tip of the probe. The set point depth is determined by the length of the probe. The probe is 316SS sheathed to allow calibration under the conditions of a normal water filled tank. The electronics are remote from the probe, and can be mounted up to 1 km away.

### A. Electronics

	<b>Input voltage</b>	<b>X-P rating</b>
A00247	24vdc	Group C, D
A00248	24vdc	Type 4X
A00249	110vac	Group C, D
A00250	110vac	Type 4X
A00251	220vac	Group C, D
A00252	220vac	Type 4X

### B. Probe

PAA-L1XX-D(L2)-Z Standard probe - 3/4"npt, process connection  
L1 = Probe Length, L2 = probe length less 4"  
3/8" diameter Teflon coated, SS probe  
1/2" 316SS inactive sheath to within 4" of probe tip  
(i.e. PAA-12IN-D8IN-Z = 12" probe)

### C. Option

A00071 Intrinsic Safety Barrier  
installed at 9830 controller, makes the sensor  
intrinsically safe

## Model 2114-OWS - Oil/Water Separator Continuous Monitor

This capacitance based monitor provides accurate, reliable level measurement when used in conjunction with a gravity flow 'equal volume in - equal volume out' style of separator. The unit is calibrated once installed and reads the level of separated floating oil. Alarms, a pump run relay, display and signal output are standard.

### A. Electronics

	<b>Input voltage</b>
2114-OWS-0-1	24 vdc
2114-OWS-1-1	110 vac
2114-OWS-2-1	220 vac

### B. Probe

A00526-"LENGTH" Teflon coated probe per specified length  
316 SS Shield with 2" npt process connection  
explosion proof head  
(i.e.A00526-12" = 12" probe)

### C. Option

A00071 Intrinsic Safety Barrier  
installed at the controller, makes the sensor  
intrinsically safe

**Note:** Provide enough probe length to ensure the head will be above possible water surging. The actual level range used on the probe will be calibrated once installed. Separators are typically efficient until the oil in the separator reaches 40% of the upper level. Therefore, the probe length should be sized to provide a submersion to approximately 50% of the tank depth.

## Model 9830-HCF - Hydrocarbon Float Sensor

For monitoring the upper surface of water to alarm on the presence of separated oil at the surface. The floats allow the sensors to follow changes in the water level. When oil separates to the water surface, the 9830-HCF control unit activates a relay. The 9830-HCF electronics is installed remote from the sensor which allows easy access for wiring and calibration.

### A. Electronics

	<b>Input voltage</b>
A00235	24 vdc
A00233	110 vac
A00236	220 vac

### B. Probe

A00083	Float Sensor, 304 SS wetted parts PVC sensor housing 10 meters of cable (float to PMC)
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### C. Option

A00071	Intrinsic Safety Barrier installed at 9830 controller, makes the sensor intrinsically safe
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## Model 2114-HCF - Floating Oil on Water Sensor

For monitoring the upper surface of water to indicate the presence of separated oil at the surface. The float allows the sensor to follow changes in the water level. As the water in front of the sensor is replaced by oil, the 2114-HCF provides a display of the surface oil level, relays for control, and a 4-20 mA output.

### A. Electronics

	<b>Input voltage</b>
2114-HCF-0-1	24 vdc, single float input
2114-HCF-1-1	110 vac, single float input
2114-HCF-2-1	220 vac, single float input
2214-HCF-0-1	24 vdc, dual float input
2214-HCF-1-1	110 vac, dual float input
2214-HCF-2-1	220 vac, dual float input

### B. Probe

A00083	Float Sensor - Style A For maximum level oil thickness of 1" (25.4 mm) 304 SS floats with PVC sensor housing Type 4X housing for PMC card near sensor 10 meters of cable (float to PMC)
A00525	Float Sensor - Style B For oil depths up to 24" (610 mm) float assembly as above with shielded probe 304 SS wetted parts

### C. Option

A00071	Intrinsic Safety Barrier installed at the controller, makes the sensor intrinsically safe (one barrier per float required)
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## Model 2114-OCF - Open Channel Flow Monitor

This capacitance based flow monitor provides accurate, reliable flow measurement when used in conjunction with a primary flow device such as a weir or a flume. The menu of 23 pre-programmed weir and flume sizes is standard. The level signal is linearized to the primary device to provide an LCD display of the flow rate, with totalization, signal output and alarms.

### A. Electronics

	<b>Input voltage</b>
2114-OCF-0-1	24 vdc
2114-OCF-1-1	110 vac
2114-OCF-2-1	220 vac

### B. Probe

A00526-"LENGTH" Teflon coated per specified length  
316 SS shield with 2" npt process connection  
explosion proof head  
(i.e. A00526-12" = 12" probe)

### C. Option

A00071 Intrinsic Safety Barrier  
installed at the controller, makes the sensor  
intrinsically safe

**Note** Provide enough probe length to ensure the head will be above possible water surging. The actual water level range used on the probe will be calibrated once installed.

## Model 9820-DPM - Dry Pipe/Pump Monitor

For monitoring of liquids travelling through a pipe or into a pump. The sensor mounts flush in-line with the pipe or at the inlet of the pump to eliminate intrusion. When there is an absence of material in front of the sensor due to a dry condition, the 9820-DPM control unit activates a relay. The 9820-DPM is installed integral to the sensor for applications where the control wiring is desired at the pump, and vibration is not a concern. For high vibration applications and remote electronics, refer to the 9830-DPM.

### A. Electronics

	<b>Input voltage</b>
A00324	12 vdc
A00325	24 vdc
A00326	115 vac
A00258	220 vac

### B. Probe

Ring Flange Sensor  
PVC wetted parts  
explosion proof housing  
150# ANSI hole sizing

A00165	1" (25 mm)
A00166	1.5" (39 mm)
A00167	2.0" (50 mm)
A00168	2.5" (54 mm)
A00169	3.0" (75 mm)
A00170	4.0" (100 mm)
A00136	6.0" (150 mm)
A00153	7.0" (200 mm)

Note. Other materials (I.e. Kynar, Nylon) and sizes are available on request.

## Model 9830-DPM - Dry Pipe/Pump Monitor

For monitoring of liquids travelling through a pipe or into a pump. The sensor mounts flush in-line with the pipe or at the inlet of the pump to eliminate intrusion. When there is an absence of material in front of the sensor due to a dry condition, the 9830-DPM control unit activates a relay. The 9830-DPM is installed remote from the sensors to minimize the vibration affect on the electronics and to provide a safe accessible calibration and wiring. For applications where the control wiring is desired at the pump, and vibration is not a concern, the control unit can be be close to the sensor to provide an economical compact system.

### A. Electronics

	<b>Input voltage</b>
A00256	24 vdc
A00257	115 vac
A00258	220 vac

### B. Probe

	Ring Flange Sensor PVC wetted parts explosion proof housing 150# ANSI hole sizing
A00165	1" (25 mm)
A00166	1.5" (39 mm)
A00167	2.0" (50 mm)
A00168	2.5" (54 mm)
A00169	3.0" (75 mm)
A00170	4.0" (100 mm)
A00136	6.0" (150 mm)
A00153	7.0" (200 mm)

Note. Other materials (I.e. Kynar, Nylon) and sizes are available on request.

### C. Option

A00071	Intrinsic Safety Barrier installed at 9830 controller, makes the sensor intrinsically safe
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## Model 9830-ILA - Interstitial Leak Alarm

For monitoring the interstitial space of a double walled tank. The flexible sensor can be fed down between the walls until the active tip of the probe is at the bottom of the cavity. When fluid intrudes in the interstitial space, the 9830-ILA control unit activates a relay. The 9830-ILA is installed remote from the sensor to provide a safe and accessible calibration and wiring.

### A. Electronics

	<b>Input voltage</b>
A00262	24 vdc
A00263	115 vac
A00264	220 vac

### B. Probe

PGA-XXXX-M-X	Flexible probe 3/4" npt process connection PVC jacketed probe 316 SS sheath explosion proof head (i.e. PGA-120IN-M-X = 120" Probe)
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### C. Option

A00071	Intrinsic Safety Barrier installed at 9830 controller, makes the sensor intrinsically safe
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## Model 9830-LPS - Leak Pad Sensor

For monitoring of containments, vaults, floors, etc. for the presence of a liquid in a normal dry condition. Up to three pads may be operated on one control unit with a common alarm. When liquid leaks beneath the raised sensing pad, the 9830-LPS unit activates a relay. The 9830-LPS is installed remote from the sensing area to provide a safe and accessible calibration and wiring.

### A. Electronics

	<b>Input voltage</b>
A00267	24 vdc
A00268	115 vac
A00269	220 vac

### B. Probe

A00062	Leak pad Sensor polycarbonate & epoxy resin sensor puck 6 meters of cable to PMC card up to 3 pads per PMC and control unit
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### C. Option

A00071	Intrinsic Safety Barrier installed at 9830 controller, makes the sensor intrinsically safe
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## Model 9830-PCD - Plugged Chute Detector

For monitoring bulk materials (i.e. coal, chips, pellets) travelling through a chute or pipe. The sensor mounts flush into the wall to eliminate intrusion. When the material in front of the sensor compacts due to a plugged condition, the 9830-PCD unit activates a relay. The 9830-PCD is installed remote from the sensor to minimize the vibration affect on the electronics and to provide a safe and accessible calibration and wiring.

### A. Electronics

	<b>Input voltage</b>
A00272	24 vdc
A00273	115 vac
A00274	220 vac

### B. Probe

Flush mount sensor  
UHMWPE (polyethylene) facing  
316 SS backplate  
wall insert thickness as specified by customer  
(consult factory for wall thickness > 150 mm)

A00177	F-4 100 mm x 100 mm (approx. 4" x 4")
A00178	F-6 150 mm x 150 mm (approx. 6" x 6")
A00179	F-8 200 mm x 200 mm ( approx. 8" x 8")

Note: Other facing materials, sizes and shapes are available on request.  
Curved sensors are available for pipe and cyclones

### C. Option

A00071	Intrinsic Safety Barrier installed at 9830 controller, makes the sensor intrinsically safe
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## Instrument Options and Accessories

The following items are factory installed on or into ordered enclosures.

A00237	Red & green light, Type 4 heavy duty
A00130	Door mounted flashing red light - Type 4X
A00238	Push button jog - Type 4X heavy duty
A00239	Buzzer with Acknowledge/Silence, 80 dcB @ 10', push button to silence
A00071	Intrinsic Safety Barrier, installed at probe input to controller, provides intrinsic safety to probe
A00259	Enclosure strip heater - on 10°C, off 20°C
A00421	4-20 mA loop powered display, panel mount supplied loose
A00422	4-20 mA loop powered display, explosion proof with viewing window, wall or conduit mount

### Type 4X fiberglass reinforced polycarbonate enclosures

Size will be determined by options

A00353	20" x 16" up to 5 x model 23XX or 24XX series units
A00354	28" x 20" up to 14 x model 23XX or 24XX series units
A00355	40" x 32" up to 36 x model 23XX or 24XX series units

## Electronic Replacement Parts and Spares

### Model 9820

	<b>Input voltage</b>	
A00240	12 vdc	Main Circuit Board
A00241	24 vdc	Main Circuit Board
A00424	115 vac	Main Circuit Board
A00425	220 vac	Main Circuit Board
A00333		2 fuses

### Model 9830

	<b>Input voltage</b>	
A00329	24 vdc	Main Circuit Board
A00330	115 vac	Main Circuit Board
A00331	220 vac	Main Circuit Board
A00332		2 fuses
A00415		PMC-2000

### Model 9080, 9080R

	<b>Input voltage</b>	
A00298	24 vdc	Board Set (2)
A00361	24 vdc	Power Supply Board
A00243	115 vac	Power Supply Board
A00244	230 vac	Power Supply Board
A00356		Flyboard
A00363		2 fuses

### Model 9050, 9052, 9054 (Specify serial number when ordering)

	<b>Input voltage</b>	
A00357	24 vdc	Micro Board
A00358		Interface Board
A00361	24 vdc	Power Supply Board
A00243	115 vac	Power Supply Board
A00244	230 vac	Power Supply Board
A00060		PMC-9000 - potted
A00110		Relay Board with cable
A00362		2 sets of 2 fuses
A00418		Display, 4 line, no backlight

### Model 9070, 9072, 9074 (Specify serial number when ordering)

	<b>Input voltage</b>	
A00357	24 vdc	Micro Board
A00359		Interface Board
A00060		PMC-9000 - potted
A00110		Relay Board with cable
A00334		2 sets of 2 fuses

**Model 9062, 9064** (Specify serial number when ordering)

	<b>Input voltage</b>	
A00357	24 vdc	Micro Board
A00360		Interface Board
A00361	24 vdc	Power Supply Board
A00243	115 vac	Power Supply Board
A00244	230 vac	Power Supply Board
A00060		PMC-9000 - potted
A00110		Relay Board with cable
A00334		2 sets of 2 fuses

**Model 2000 Series**

	<b>Input voltage</b>	
A00408		Micro Board
A00409		Model 210X, 230X Interface Board
A00410		Model 211X, 231X Interface Board
A00411		Model 220X or 240X Interface Board
A00412		Model 221X or 241X Interface Board
A00500	24 vdc	Power Supply Boards
A00413	115 vac	Power Supply Boards
A00414	230 vac	Power Supply Boards
A00415		PMC-2000 - potted
A00416		Relay Board with cable
A00417		2 fuses
A00419		Display - backlit, 4 line

**Model 2000-CAP**

A00419		Display - backlit, 4 line
A00408		Micro Board
A00500	24 vdc	Power Supply Boards
A00413	115 vac	Power Supply Boards
A00414	230 vac	Power Supply Boards

**Model 2000-CAL**

A00418		Display, 4 line, no backlight
A00408		Micro Board

**Model 9000-CAP**

	<b>Input voltage</b>	
A00357	24 vdc	Micro Board
A00358		Interface Board
A00361	24 vdc	Power Supply Board
A00243	115 vac	Power Supply Board
A00244	230 vac	Power Supply Board
A00418		Display - 4 line

**Model 9000-CAL**

A00418		Display, 4 line, no backlight
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