Greyline instruments inc.

PSL Pump Station Level Controller

Approximate shipping weight: 10 lbs / 4.5 kg

Model　　| Greyline PSL -__-__-__-__-__-__-__-__-__ |

STANDARD FEATURES:
- sensor – PZ34, PVC, 32ft / 10 m range
- sensor cable - 25ft / 7.6m coaxial
- temperature compensation - automatic
- enclosure - watertight, dust tight NEMA4X (IP66) polycarbonate
- programming - built-in 3 button keypad, Password protected and PSL remote PC software
- calibration - Level or Range mode in selectable Units
- displays - large 4-digit LCD: Level;16-digit alphanumeric: Menu/Reports/Status
- 6 relays - 5 ampere SPDT, programmable level alarm and/or pump control modes, pump alternation/sequencing, failsafe/echo-loss, temperature alarm
- outputs - isolated 4-20mA (1000 ohm), RS232
- report logger - pump Run Time report
- power input - 100-160VAC 50/60Hz, 6 watts maximum
- surge protection - sensor, AC power and 4-20mA output
- 1 PC software - "PSL Remote" for Windows - calibrate and save as disk file, real-time PSL monitoring by RS232 or modem connection
- 1 Manual - Installation and Operation

POWER INPUT Standard 100-160VAC 50/60Hz		A
180-260VAC 50/60Hz		B
24VDC		C
12VDC (Battery Power)		D

ENCLOSURE Standard NEMA4X (IP66) polycarbonate		1
CXJ8106 - Explosion proof NEMA7		2

ENCLOSURE TEMPERATURE Standard (-5 to 140°F / -20 to 60°C)		A
Heater and Thermostat (AC only, 15 watts)		B

ELECTRONICS PROTECTION Standard - no circuit board coating		1
Conformal Coating ("tropicalized") for humid atmospheres		2

SENSOR (25 ft / 7.6m cable with built-in temperature compensation)
(When ordering replacements *always* provide instrument Serial No.)

Standard PZ34 PVC (16" / 406.4 mm deadband, 32 ft / 10 m range on liquids)		L
PZ32T PVC and Teflon (12" / 305 mm deadband, 32 ft / 10 m range on liquids)		A
PZ32TE All Teflon (32 ft / 10m range, rated to temperature 170°F/76°C)		E
PZ34T4F Flange Mount, 4" with Teflon face (32 ft/10m range)		F
PZ34T6F Flange Mount, 6" with Teflon face (32 ft/10m range)		G
PZ34T8F Flange Mount, 8" with Teflon face (32 ft/10m range)		H
PZ52T PVC and Teflon, 50 ft / 15.6m range		J
PVC Flange Mount Sensor with non-standard Flange size		K
PZ12 PVC (8" / 203.2 mm deadband, 12' / 3.66 m Max. range)		M
PZ12-LP Low-Profile, PVC (8" / 203.2 mm deadband, 12' / 3.66 m Max. range)		N
PZ80 PVC (24" / 610 mm deadband, 80' / 25 m Max. range, 100' / 30.5 m cable)		U

INTRINSIC SAFETY BARRIER (built into electronics enclosure)

Standard (General Purpose locations / not Intrinsically Safe)		1
ISB Intrinsic Safety Barrier for Sensor and Cable installation in Class I,II,III, Div. I,II, Groups C,D,E,F,G Hazardous rated locations		2

SENSOR CABLE LENGTH Standard 25 ft. / 7.6m RG62AU coaxial		A
50 ft / 15 m continuous RG62AU coaxial		B
100 ft / 30 m continuous RG62AU coaxial		C

BUILT-IN OPTIONS

Standard – RS232 Output with 'PSL Remote' PC software		1
RS485 Output with 'PSL Remote' PC software		6

OPTIONS AND ACCESSORIES

QTY	CODE	DESCRIPTION	
	XC	Extra sensor cable up to 500ft / 152m	
	JB	Sensor cable Junction Box, NEMA4 steel	
	SNUB	Snubber – Noise Suppressor for Relays	
	PM	Panel Mount Flange assembly .	
	SCR	Enclosure Sunscreen (iridite aluminum)	
	PZS	Sensor Sunscreen (iridite aluminum)	
	SBMS	Sensor Submergence Shield (PVC)	
	CHS	Spare set Electronics with Mounting Chassis (standard features)	
	MNL	Additional Manuals (One supplied with each unit)	
	SP1	Lightning/Surge Protection in NEMA4 Steel Enclosure	
	485OI9TB-12V	RS232/RS485 Converter	
	NM-DB9M/25M	Null Modem Adaptor – to connect Greyline RS232 cable to a Modem	
	DMS-30	Loop powered 3-1/2 digit LCD display	

SPARE/REPLACEMENT SENSORS (25 ft / 7.6m cable and temperature compensation)
*Provide Instrument Serial number when ordering replacements

	PZ34	(Standard) PVC (16" / 406.4 mm deadband, 32 ft / 10 m range)	
	PZ32T	PVC and Teflon (32 ft/10m range on liquids)	
	PZ32TE	All Teflon (32 ft / 10 m range on liquids, rated to temperature 170°F/76°C)	
	PZ34T4F	Flange Mount, 4" with Teflon face (32 ft/10m range)	
	PZ34T6F	Flange Mount, 6" with Teflon face (32 ft/10m range)	
	PZ34T8F	Flange Mount, 8" with Teflon face (32 ft/10m range)	
	PZ52T	PVC and Teflon, 50 ft/15.6 m range	
	PZ12	PVC (8" / 203.2 mm deadband, 12' / 3.66 m Max. range)	
	PZ12-LP	Low-Profile, PVC (8" / 203.2 mm deadband, 12' / 3.66 m Max. range)	
	PZ80	PVC (24" / 610 mm deadband, 80' / 25 m Max. range, 100' / 30.5 m cable)	