

# TouchPLS™

## A New Frontier in PLS Technology

World's Fastest PLS on Ethernet, with Touch Screen Settings

Total Integration with PLC Control Networks



- Touchscreen Graphical PLS settings.
- Less than 30 Micro second response time.
- 4096 bit resolution, better than 0.1 degree accuracy.
- -67F to 248F, NEMA4 / 4X Submersible, Expl. proof, 3/8 - 5/8" Shaft Resolvers
- Unlimited number of programs, on board as well as downloadable from PLC, stored on field replaceable flash modules.
- Leading or Trailing Edge speed compensation for each channel programmed in milliseconds.
- Angle On/ Time Off programming.
- Pulse Programming.
- Four ModZ functions to rezero position upon external input.
- Brake wear monitor functionality for Press applications (Optional).
- Absolute positioning, PLS knows true machine position even when shaft moves after power loss.
- Maximum RPM of 3600
- Broken wire detection and Short Circuit Proof Resolver wiring
- Ratiometric converter for highest noise immunity even upto 2500 ft away
- PLS settings and machine data totally integrated with your PLC
- Built-in Productivity Monitor (Optional)
- Can even be the Operator Interface for your PLC.

1(800)711-5109

[www.avg.net](http://www.avg.net)

**AVG** AUTOTECH  
CONTROLS  
Innovation by Design

TouchPLS	6" Mono 6" Color STN	8" Color STN	10" Color TFT	15" Color TFT
Display	<b>Mono:</b> 4.72"x 3.5" 16 Grey Shades <b>Color:</b> 4.65" x 3.5" 128 Colors	6.65" x 5.024" 128 colors	8.31"x 6.22" 128 colors	12.02"x 9.02" 128 Colors
Screen Pixels	320 x 240	640 x 480		
Operating Temp	0-50 °C	0-45 °C	0-55 °C	0-55 °C
Ext Dimensions	8.576"x6.800"x 2.800"	10.516" x 8.212" x 2.800"	13.168" x 10.124" x 3.035"	16.100"x12.336"x4.208"
Panel Cutout	7.54" x 5.64"	9.25" x 7.10"	11.93" x 8.94"	14.96"x11.68"
Display Brightness	<b>Mono:</b> 140 nits <b>Color:</b> 180 nits	140 nits	200 nits	250 nits
Touch Screen	48 resistive cells (8 x 6 matrix)	192 resistive touch cells (16 x 12 matrix)		
Weight	<b>Mono:</b> 2.2 lbs <b>Color:</b> 2.3 lbs	2.9 lbs	4.75 lbs	8.9 lbs
Power Input	20-30VDC 15 Watts @ 24VDC	20-30VDC 16 Watts @ 24VDC	20-30VDC 18 Watts @ 24VDC	20-30VDC 33 Watts @ 24VDC
User Memory	512Kb System RAM			1Mb System RAM
RAM Modules	512Kb RAM Module, 1Mb RAM Module			
Flash Modules	512Kb Flash Module, 1Mb Flash Module, 2Mb Flash Module			
Applications	Single Turn Rotary			
Position Input Devices	Autotech "E Series" Resolvers, 1/8" - 5/8" Shaft, Size 11 - Size 40, Up to 100 lb Shaft Loading NEMA1 - NEMA4X, Class 1 Div1			
Number of Outputs	32 Total (16 Hard CAMs, 8 with Timer, 16 Soft CAMs to PLC)			
Expansion Capability	256 With 7 Slave Units			
Number of Programs	More than 500, Limited by User Memory			
Multiple Setpoints / Channel	YES, Up to 256 Per PLS Program			
Scan Time	26 Micro Seconds Total for All 256 Setpoints Including Speed Compensation and All Other Over Head			
Resolution Counts /Turn	1 - 4096			
Programming	Graphical Touch Panel Interface, and / or through Ethernet / PLC Port.			
Communications	Serial RS232/422/485, or Ethernet for Programming, All PLC Protocols for Control Integration such as DH485, DH+,RIO, Modbus, Modbus+, Profibus, Controlnet, DeviceNet, EthernetIP, CCLink, Host Link, SNP, FX, And Numerous Others.			
Optical Isolation	Yes, Both Input and Output			
Types of Outputs	0.5 Amp 24VDC P or N			
Fine Tuning in Motion	Yes			
Operator Interface for PLC and PLS	PLS and PLC Operator Interface can be Programmed if Orderd with this Option			
Productivity Monitor	Optional			
Speed Compensation	Leading or Trailing Edge for Each Channel, Programmed in msec			
Dynamic Zeroing/ ModZ	3 ModZ Inputs, Edge Triggered			
Brake Monitor	Optional, Check for Availability			
Motion Detector	Yes, Speed Detection Programmable from 0 - 1023 RPM			
Short Circuit Proof Resolver Connection	Yes			
NEMA / Agency Approval	NEMA 4X, Stainless Steel Option, UL, cUL, CE			
Environmental	Shock: 10G for Under 12 msec, Vibration: 5-55Hz 2G for 2 Hours, Humidity: 10-95% RH Non Condensing, Electrical Noise: NEMA ICS 2-230, Showering Arc, Ansi C37, 90a-1974 SWC, Level C Chattering Relay Test			