

Project : OHIO Power Systems

5.1 Sensor Scaling

All data scaling for each of the displayed parameters will be done within the CANtrak SW & the GPSI shall transmit raw (unscaled) data acquired from the sensors.

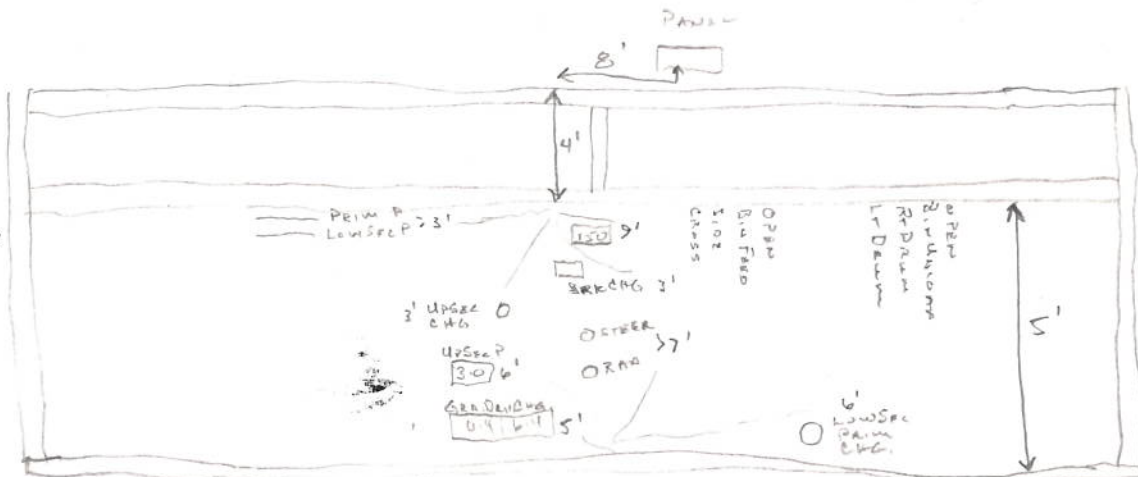
The pressure sensors are assumed to produce an output signal in the range 0-10V with the max. pressure producing the max. voltage.

The ranges and the scaling factors applied to the parameters described above are detailed below.

Only the initial digits of the part number are specified as the remaining requirements are not known.

GPSI	INPUT	SENSOR	Range	Scaling Factor	Part No.
23' 16' 24' 16' 22' 16'	✓ A1	G.D.Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x
	✓ A2	Brake Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x
	✓ A3	Lower Sec. Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x
	✓ A4	Upper Sec. Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x
	✓ A5	Ground Drive	0-6000 PSI	x * 15.0	1200 S H60 xx x x x x
	✓ A6	Primary	0-5000 PSI	x * 12.5	1200 S H50 xx x x x x
	A7				
16' 24' 9' 9' 9' 9'	✓ A1	Lower Sec.	0-5000 PSI	x * 12.5	1200 S H50 xx x x x x
	✓ A2	Upper Sec.	0-5000 PSI	x * 12.5	1200 S H50 xx x x x x
	✓ A3	Left Drum	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x
	✓ A4	Right Drum	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x
	✓ A5	Cross Conveyor	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x
	✓ A6	Side Conveyor	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x
	A7				
9' 9' 25' 25'	✓ A1	Bin Fill Conv.	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x
	✓ A2	Bin Empty	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x
	✓ A3	Radiator	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x
	✓ A4	Steering	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x
	A5				
	A6				
	A7				

TRANSDUCER  
Pin #1 Red  
2 V/MTP  
3 Black  
4 Green



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	✓ A4	Steering	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x
	✓ A5				
	✓ A6				
	✓ A7				

TRANSDUCER  
Pin #1 Res  
2 V/MTP  
3 Black  
4 Green

