

Project : OHIO Power Systems

5.1 Sensor Scaling

All data scaling for each of the displayed parameters will be done within the CANtrak S/W & 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.

BELDEN 9444

	GPSI	INPUT	SENSOR	Range	Scaling Factor	Part No.	
24'6"	✓	A1	G.D.Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x	
22'	✓	A2	Brake Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x	
16'	✓	A3	Lower Sec. Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x	SNAPPING ROLL CHG. PRESS
16'	✓	A4	Upper Sec. Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x	
26'	✓	A5	Ground Drive	0-6000 PSI	x * 15.0	1200 S H60 xx x x x x	
24'	✓	A6	Primary	0-5000 PSI	x * 12.5	1200 S H50 xx x x x x	Lt SNAPPING ROLL
		A7					
24'	✓	A1	Lower Sec.	0-5000 PSI	x * 12.5	1200 S H50 xx x x x x	RIGHT SNAPPING ROLL
26'	✓	A2	Upper Sec.	0-5000 PSI	x * 12.5	1200 S H50 xx x x x x	LEFT BIN
8'	✓	A3	Left Drum	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	RIGHT BIN
8'	✓	A4	Right Drum	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	RIGHT BIN
8'	✓	A5	Cross Conveyor	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
8'	✓	A6	Side Conveyor	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
		A7					
8'	✓	A1	Bin Fill Conv.	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
8'	✓	A2	Bin Empty	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
27'6"		A3	Radiator	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
24'		A4	Steering	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
		A5					
		A6					
		A7					

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BELDEN 19444

	GPSI	INPUT	SENSOR	Range	Scaling Factor	Part No.	
24'6"	✓	A1	G.D.Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x	
22'	✓	A2	Brake Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x	
16'	✓	A3	Lower Sec. Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x	SNAPPING ROLL CHG. PRESS
16'	✓	A4	Upper Sec. Charge	0-600 PSI	x * 1.5	1200 S G60 xx x x x x	
26'	✓	A5	Ground Drive	0-6000 PSI	x * 15.0	1200 S H60 xx x x x x	
24'	✓	A6	Primary	0-5000 PSI	x * 12.5	1200 S H50 xx x x x x	Lt SNAPPING ROLL
		A7					
24'	✓	A1	Lower Sec.	0-5000 PSI	x * 12.5	1200 S H50 xx x x x x	RIGHT SNAPPING ROLL
24'	✓	A2	Upper Sec.	0-5000 PSI	x * 12.5	1200 S H50 xx x x x x	LEFT BIN
8'	✓	A3	Left Drum	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	RIGHT BIN
8'	✓	A4	Right Drum	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	RIGHT BIN
8'	✓	A5	Cross Conveyor	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
8'	✓	A6	Side Conveyor	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
		A7					
8'	✓	A1	Bin Fill Conv.	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
8'	✓	A2	Bin Empty	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
27'6"		A3	Radiator	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
24'		A4	Steering	0-3000 PSI	x * 7.5	1200 S H30 xx x x x x	
		A5					
		A6					
		A7					