



REV No	DATE	CHANGE	DRAWN	CHECK	APPD	DATE	EST. MASS	DIMENSIONS	SCALE	PROJECTION 3RD	TITLE			
1	30.01.2019	ECO-014852, CHANGE OF TITLE & DESC. ACTUAL FIRST ISSUE OF DRAWING	LMC	NL	ML	30.01.2019		mm			PCB MVPE			
						DESIGNED	DRAWN	TOLERANCES UNLESS OTHERWISE STATED						
						KL	KL	DIMENSION mm	UP TO 100	100 TO 300	300 TO 1000	OVER 1000	MATERIAL:-	
						CHECKED	APPROVED	FABRICATION	± 1.0	± 1.5	± 2.0	± 3.0	DO NOT SCALE IF IN DOUBT ASK	
						NL	ML	MACHINED PART	± 0.15	± 0.4	± 0.8	± 1.0		
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												SHEET 1 OF 2		

J1-4 Face View																	
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35

Main Connectors J1-4

1. Uses Phoenix contact DFMC 1.5/18-ST-3,5-LR push fit series
2. 3.5mm Pitch
3. 8A maximum current
4. 16-24AWG
5. Requires 10-14mm Ferrule length
6. Use with Phoenix contact AI 0,5 - 10 WH - 3201275 (RS 804-6880) Ferrule
7. For 2 Wire PT100 link 'L' and '+' pins

Ethernet Connector J7

1. Use RJ45 Connector 10/100Mb

J5 Face View			
2	4	6	8
1	3	5	7

Expansion connector J5

1. Uses Molex Micro Fit 3.0 Series connector 43025-0800
2. 3mm Pitch 8 Way 2 Row
3. 5A Max current
4. See product datasheet for correct tool and pins

Connector				
#	J1	J2	J3	J4
1	GND	Prop8A-	Prop9A-	Sensor3 0V
2	24V Control	Prop8A+	Prop9A+	Sensor3 Sig
3	GND	Prop8B-	Prop9B-	Sensor3 24V
4	24V Field	Prop8B+	Prop9B+	Sensor4 0V
5	GND	Enc1 0V	Prop10A-	Sensor4 Sig
6	24V Field	Enc1 24V	Prop10A+	Sensor4 24V
7	GND	Enc1 A	Prop10B-	Sensor5 0V
8	24V Field	Enc1 B	Prop10B+	Sensor5 Sig
9	Prop1A-	Enc2 0V	Prop11A-	Sensor5 24V
10	Prop1A+	Enc2 24V	Prop11A+	Sensor6 0V
11	Prop1B-	Enc2 A	Prop11B-	Sensor6 Sig
12	Prop1B+	Enc2 B	Prop11B+	Sensor6 24V
13	Prop2A-	Sensor15 0V	Prop12A-	Sensor7 0V
14	Prop2A+	Sensor15 Sig	Prop12A+	Sensor7 Sig
15	Prop2B-	Sensor15 24V	Prop12B-	Sensor7 24V
16	Prop2B+	Temp1 L	Prop12B+	Sensor8 0V
17	Prop3A-	Temp1 +	Prop13A-	Sensor8 Sig
18	Prop3A+	Temp1-	Prop13A+	Sensor8 24V
19	Prop3B-	Temp2 L	Prop13B-	Sensor9 0V
20	Prop3B+	Temp2 +	Prop13B+	Sensor9 Sig
21	Prop4A-	Temp2 -	Prop14A-	Sensor9 24V
22	Prop4A+	Strain1 0V	Prop14A+	Sensor10 0V
23	Prop4B-	Strain1 5V	Prop14B-	Sensor10 Sig
24	Prop4B+	Strain1 Sig+	Prop14B+	Sensor10 24V
25	Prop5A-	Strain1 Sig-	Prop15A-	Sensor11 0V
26	Prop5A+	Strain2 0V	Prop15A+	Sensor11 Sig
27	Prop5B-	Strain2 5V	Prop15B-	Sensor11 24V
28	Prop5B+	Strain2 Sig+	Prop15B+	Sensor12 0V
29	Prop6A-	Strain2 Sig-	Moist+	Sensor12 Sig
30	Prop6A+	NC	Moist-	Sensor12 24V
31	Prop6B-	NC	Sensor1 0V	Sensor13 0V
32	Prop6B+	RS232 GND	Sensor1 Sig	Sensor13 Sig
33	Prop7A-	RS232 RX	Sensor1 24V	Sensor13 24V
34	Prop7A+	RS232 TX	Sensor2 0V	Sensor14 0V
35	Prop7B-	RS485 D+	Sensor2 Sig	Sensor14 Sig
36	Prop7B+	RS485 D-	Sensor2 24V	Sensor14 24V

(EXPANSION CONNECTOR)

Connector J5	
1	24V Control
2	GND
3	SPI CS1
4	SPI MOSI
5	SPI SCK
6	SPI MISO
7	-
8	-

(ETHERNET)

Connector J7	
1	TX+
2	TX-
3	RX+
4	-
5	-
6	RX-
7	-
8	-

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											AJ7545	1	A3
											SHEET 2 OF 2		



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