



Setup Guide TE09 PDP to GPX-32



Package Contents:

- TE09 PDP
- 2 x 68pin Male SCSI to 68pin Male SCSI Cables
- 2 x 50pin Male SCSI to 50pin Male SCSI Cables
- Setup Guide (this manual)

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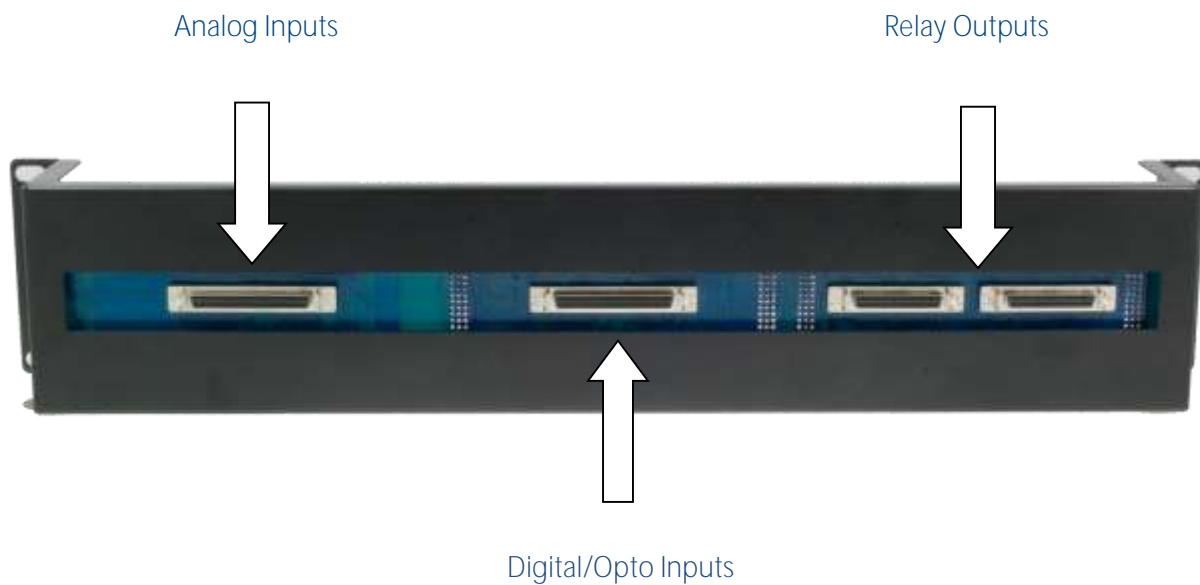
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Back Panel Layout

Back Panel Layout



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Punch Down Panel Interface

Punch Down Panel Interface

The PDP or Punch Down Panel, is used to facilitate connection of passive peripheral equipment to a GPX-32 interface. The unit comprises 4 cables, 2 x SCSI 50pin and 2 x SCSI 68pin, which interconnect between the GPX-32 and the wiring interface. The PDP has PCB mounted 110 blocks, SCSI connectors and jumpers. The PCB is mounted on a 2RU metal frame to allow for easy mounting in a standard 19" EIA rack.

Installing Your PDP

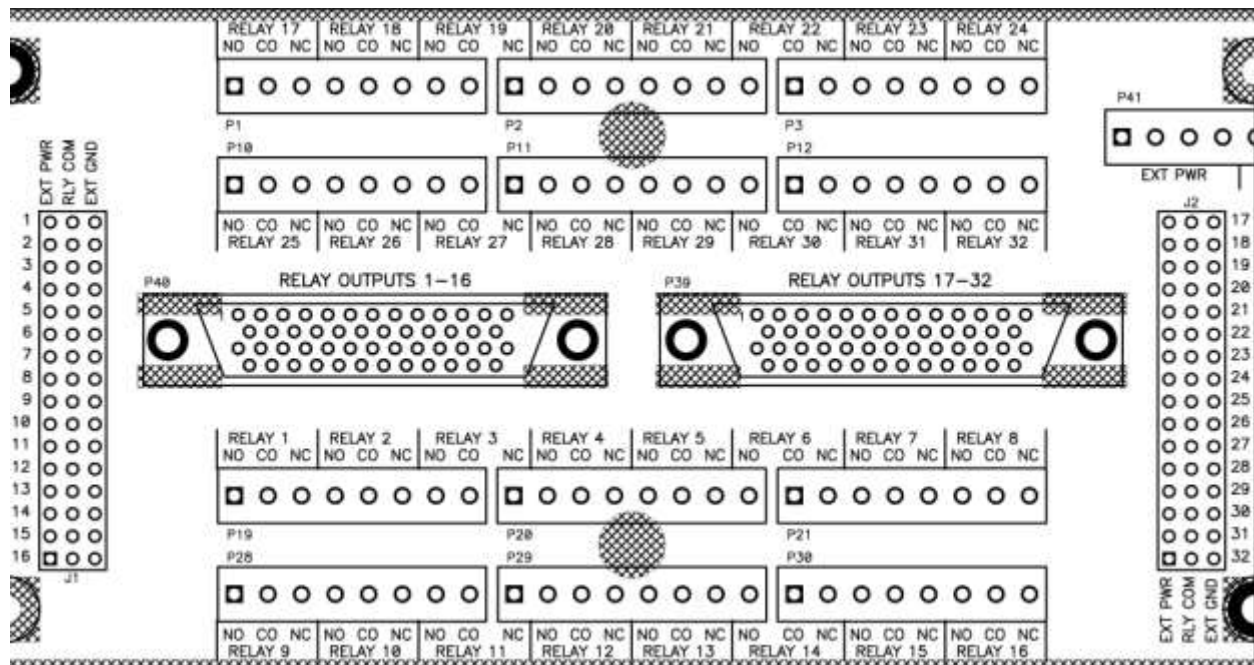
Mount the PDP into the desired location and using the supplied SCSI cables, connect the unit to the GPX-32. Pay careful attention to placement of cables, making sure the output from the GPX-32 is matched to the correct input of the PDP. The SCSI connectors are labeled on the front of the PDP.

NOTE: Incorrectly connecting the PDP could cause damage to the GPX-32 and will void the unit warranty.

Connections

The PDP is broken into three sections, Relay outputs, Opto and Analog inputs.

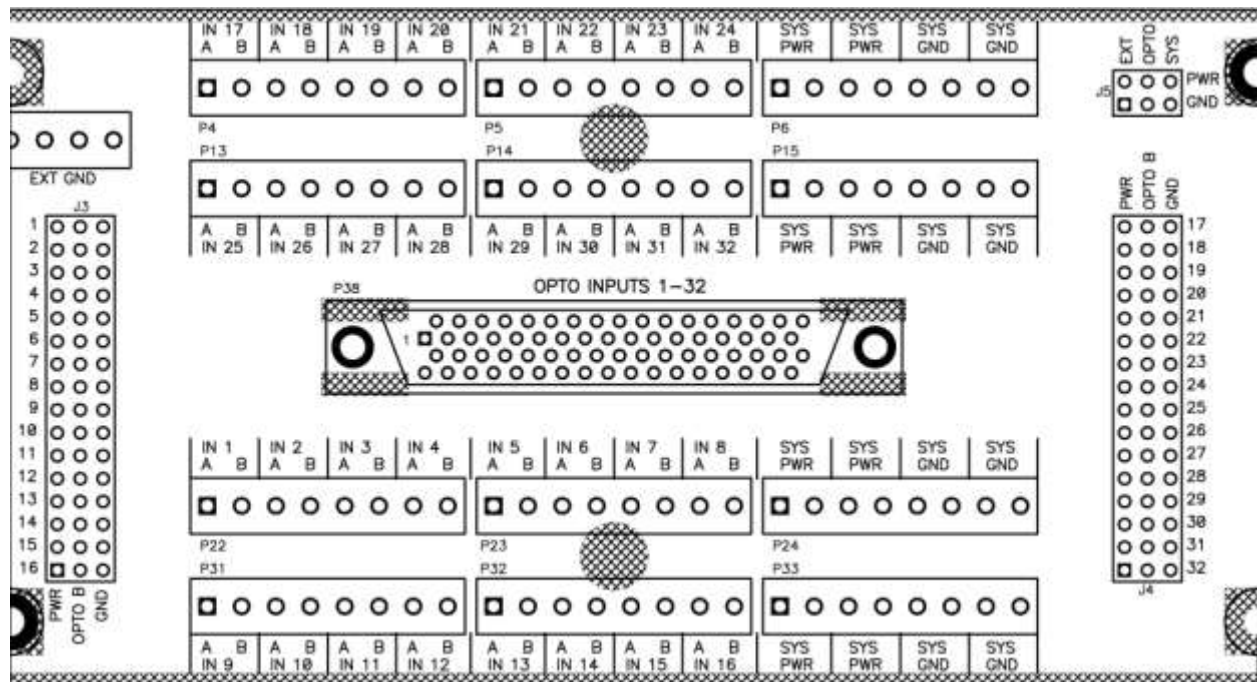
Relay connections each have a Common (COM), Normally Open (NO) and Normally Closed (NC) each terminating to a single pin on a 110 block, each is labeled on the PCB. The COM for each Relay also has a jumper allowing for the selection of either an external PWR or GND source. The external PWR and GND source must be connected to the correct 110 blocks, as labeled, to function.



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Opto connections each have an A and B side each terminating to a single pin on a 110 block, each is labeled on the PCB. The B side for each Opto also has a jumper allowing for the selection of either the system or external PWR or GND source. If using the external PWR/GND option, the external PWR and GND source must be connected to the correct 110 blocks, as labeled, to function.

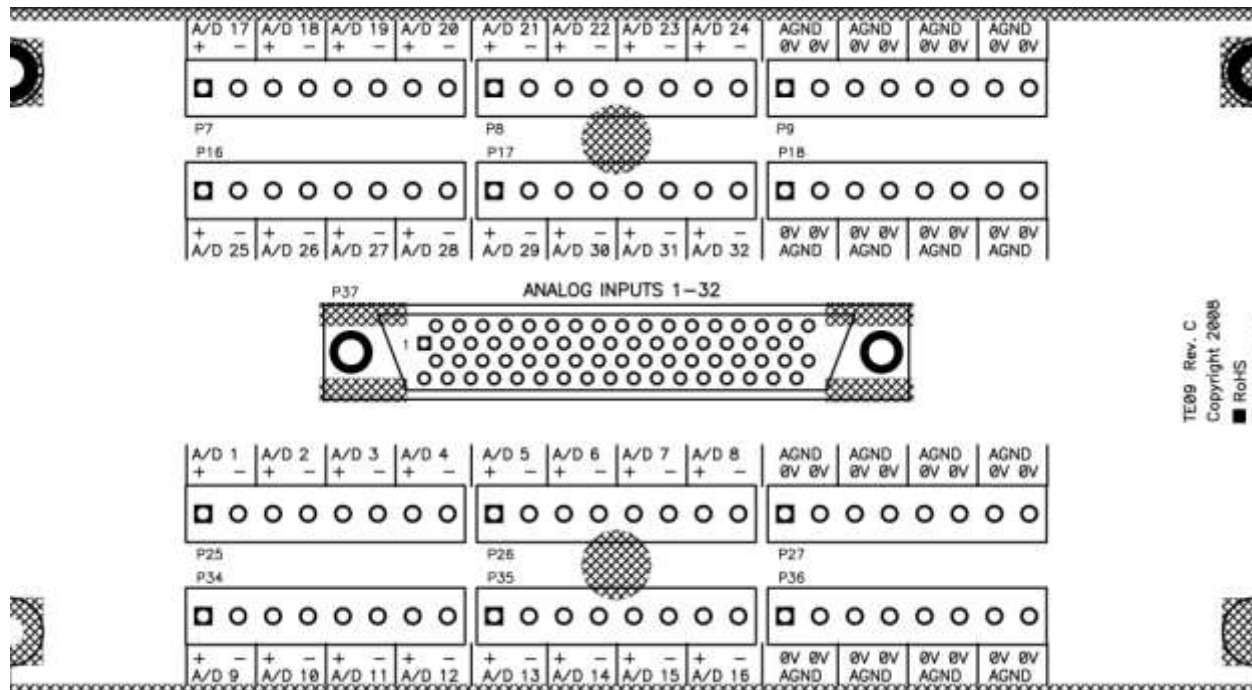


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Analog connections each have an IN+ and IN– side each terminating to a single pin on a 110 block, each is labeled on the PCB. Also made available are 32 Analog ground pins across 4 110 blocks. Three different input modes are available:

1. Differential – Both AIN+ and AIN- inputs driven within voltage range however neither signal falls below a common or ground reference. The difference in the 2 signals is amplified across the full scale input of the ADC.
2. Bipolar – AIN+ input driven within voltage range above and below AIN- while it is held at fixed reference. The signal is amplified across the full scale input of the ADC.
3. Unipolar – AIN+ input driven within voltage range while AIN- is held at a fixed reference. The signal is amplified across ½ full scale of the ADC.



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Punch Down Panel Interface

Technical Specifications

Mechanical Dimensions

19"W X 3.5"H (2U) X 3.5"D, Standard EIA Rack Mounting

Connectors

2 x 0.050" 68 Pin SCSI Connector

2 x 0.050" 50 Pin SCSI Connector

Wire Specification

Solid Wire: 26 AWG

Stranded Wire: 24 AWG

Connector Pinouts

Opto Inputs 1 – 32

Connector	Input Number	Opto A	Opto B
68 Pin SCSI	1	1	2
68 Pin SCSI	2	35	36
68 Pin SCSI	3	3	4
68 Pin SCSI	4	37	38
68 Pin SCSI	5	5	6
68 Pin SCSI	6	39	40
68 Pin SCSI	7	7	8
68 Pin SCSI	8	41	42
68 Pin SCSI	9	9	10
68 Pin SCSI	10	43	44
68 Pin SCSI	11	11	12
68 Pin SCSI	12	45	46
68 Pin SCSI	13	13	14
68 Pin SCSI	14	47	48
68 Pin SCSI	15	15	16
68 Pin SCSI	16	49	50
68 Pin SCSI	17	17	18
68 Pin SCSI	18	51	52
68 Pin SCSI	19	19	20
68 Pin SCSI	20	53	54
68 Pin SCSI	21	21	22
68 Pin SCSI	22	55	56
68 Pin SCSI	23	23	24
68 Pin SCSI	24	57	58
68 Pin SCSI	25	25	26
68 Pin SCSI	26	59	60
68 Pin SCSI	27	27	28
68 Pin SCSI	28	61	62
68 Pin SCSI	29	29	30
68 Pin SCSI	30	63	64
68 Pin SCSI	31	31	32
68 Pin SCSI	32	65	66
68 Pin SCSI	+15VDC	33	34
68 Pin SCSI	Ground	67	68

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Connector Pinouts

Analog Inputs 1 – 32

Connector	Analog Input Number	Analog IN+	Analog IN-
68 Pin SCSI	1	1	2
68 Pin SCSI	2	35	36
68 Pin SCSI	3	3	4
68 Pin SCSI	4	37	38
68 Pin SCSI	5	5	6
68 Pin SCSI	6	39	40
68 Pin SCSI	7	7	8
68 Pin SCSI	8	41	42
68 Pin SCSI	9	9	10
68 Pin SCSI	10	43	44
68 Pin SCSI	11	11	12
68 Pin SCSI	12	45	46
68 Pin SCSI	13	13	14
68 Pin SCSI	14	47	48
68 Pin SCSI	15	15	16
68 Pin SCSI	16	49	50
68 Pin SCSI	17	17	18
68 Pin SCSI	18	51	52
68 Pin SCSI	19	19	20
68 Pin SCSI	20	53	54
68 Pin SCSI	21	21	22
68 Pin SCSI	22	55	56
68 Pin SCSI	23	23	24
68 Pin SCSI	24	57	58
68 Pin SCSI	25	25	26
68 Pin SCSI	26	59	60
68 Pin SCSI	27	27	28
68 Pin SCSI	28	61	62
68 Pin SCSI	29	29	30
68 Pin SCSI	30	63	64
68 Pin SCSI	31	31	32
68 Pin SCSI	32	65	66
68 Pin SCSI	Ground	33	34
68 Pin SCSI	Ground	67	68

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Connector Pinouts

Relay Outputs 1 – 16

Connector	Relay Number	Common	Open	Closed
50 PIN SCSI	1	2	1	3
50 PIN SCSI	2	5	4	6
50 PIN SCSI	3	8	7	9
50 PIN SCSI	4	11	10	12
50 PIN SCSI	5	14	13	15
50 PIN SCSI	6	17	16	18
50 PIN SCSI	7	20	19	21
50 PIN SCSI	8	23	22	24
50 PIN SCSI	9	27	26	28
50 PIN SCSI	10	30	29	31
50 PIN SCSI	11	33	32	34
50 PIN SCSI	12	36	35	37
50 PIN SCSI	13	39	38	40
50 PIN SCSI	14	42	41	43
50 PIN SCSI	15	45	44	46
50 PIN SCSI	16	48	47	49

Unused Pins: 25 and 50

Relay Outputs 17 – 32

Connector	Relay Number	Common	Open	Closed
50 PIN SCSI	17	2	1	3
50 PIN SCSI	18	5	4	6
50 PIN SCSI	19	8	7	9
50 PIN SCSI	20	11	10	12
50 PIN SCSI	21	14	13	15
50 PIN SCSI	22	17	16	18
50 PIN SCSI	23	20	19	21
50 PIN SCSI	24	23	22	24
50 PIN SCSI	25	27	26	28
50 PIN SCSI	26	30	29	31
50 PIN SCSI	27	33	32	34
50 PIN SCSI	28	36	35	37
50 PIN SCSI	29	39	38	40
50 PIN SCSI	30	42	41	43
50 PIN SCSI	31	45	44	46
50 PIN SCSI	32	48	47	49

Unused Pins: 25 and 50

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