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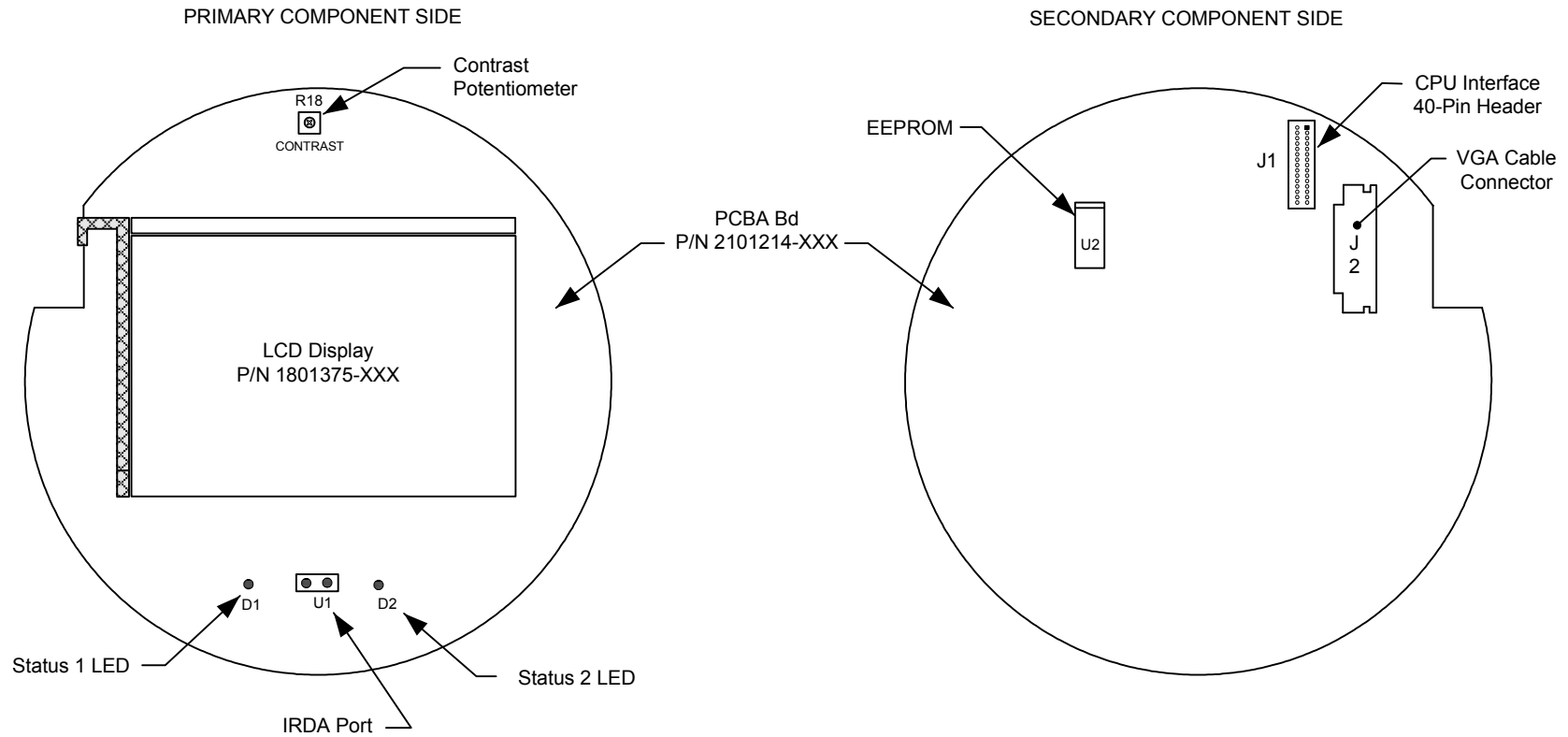
1. For 'XXX' on the Part Number (P/N):

Refer to the Hardware Revision Control Document,
or Refer to the Software Revision Control Document.

¼ PANEL VGA DISPLAY (2101984-XXX)

The Display Board provides a ¼ VGA size monochromatic display to monitor the process and results. It also provides 6 magnetic switches to allow a user to navigate through various screens of data and control the processes (STOP OPERATION, START OPERATION and CALIBRATE).

- There is a User Interface with 6 Hall-Effect Navigation Screens for monitoring NGC8200 operation.
- There are 2 LED Status Indicators that are User Programmable.
- An Infrared Port has been included for future use.



REF: N/A

ABB TOTALFLOW Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	L17696	UD	NGC CIRCUIT BOARD ELEMENTS (ALL BOARDS)	2102391	AA	1 OF 5

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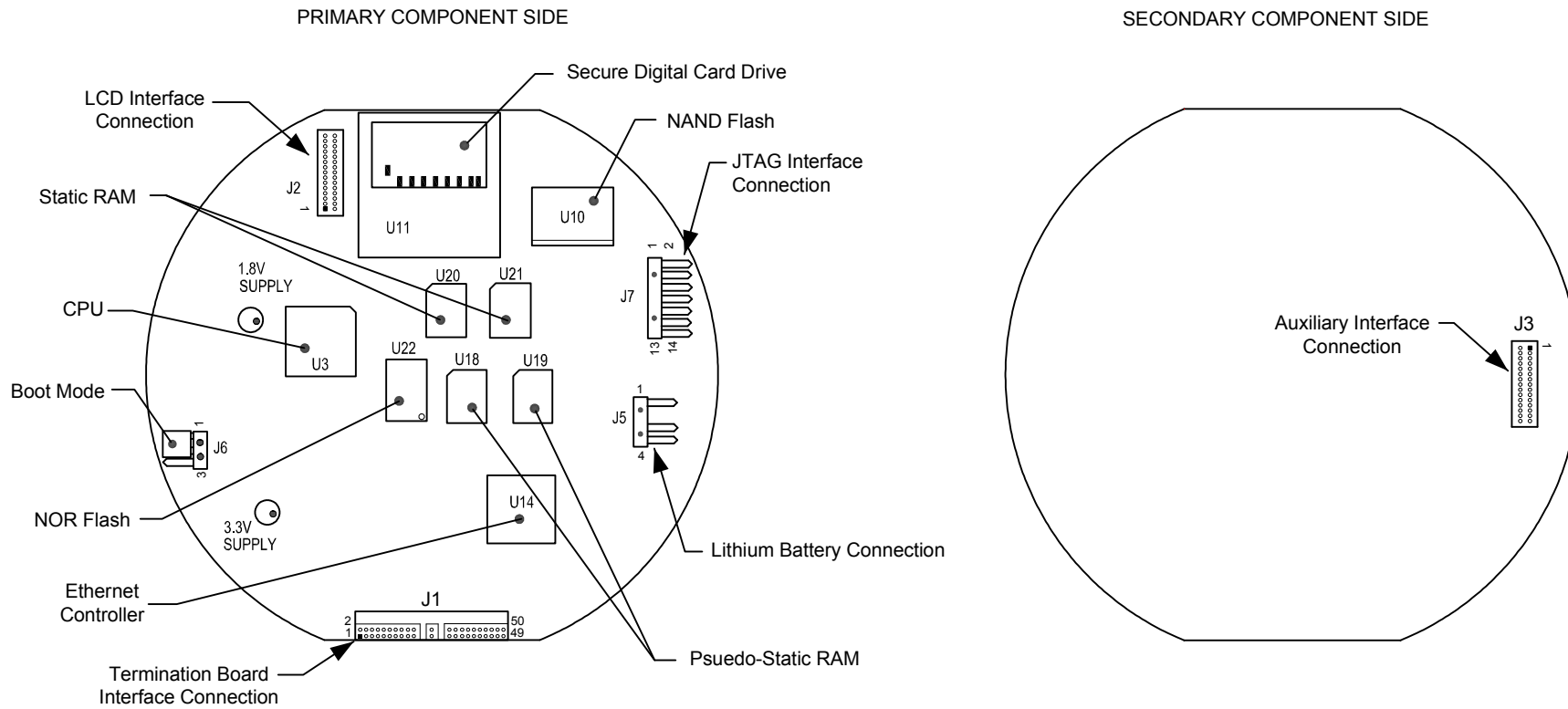
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DIGITAL CONTROLLER BOARD (2101946-XXX)

The Digital Controller Board provides control parameters to the Analytical Processor Board and then stores and processes the data sent from the Analytical Processor Board. The Digital Controller Board will also communicate with other devices.

- 16MB of Pseudo-Static RAM, Lithium battery backed
- 32MB NAND Flash memory
- 4MB Static CMOS Memory



REF: N/A

	TOTALFLOW	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	Products	L17696	UD	NGC CIRCUIT BOARD ELEMENTS (ALL BOARDS)	2102391	AA	2 OF 5

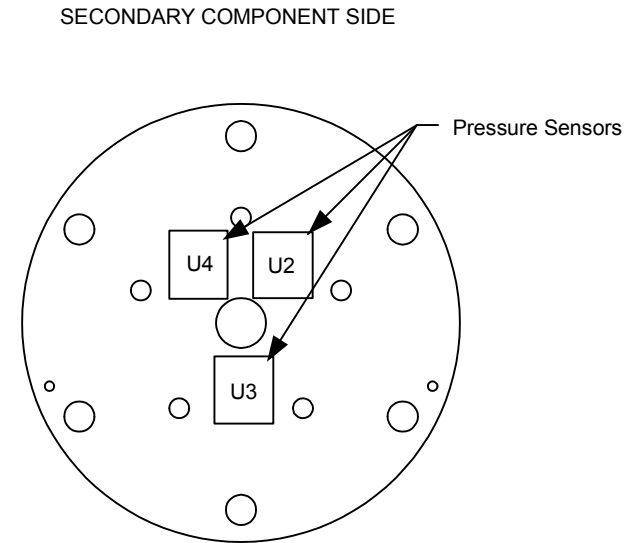
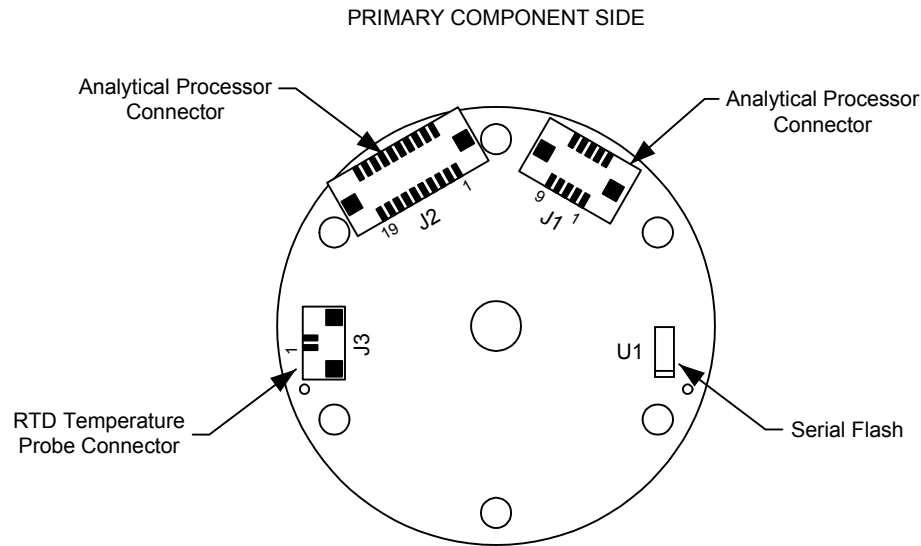
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GC MODULE (2101593-XXX)

The GC Module is comprised of 3 parts: Valves, Columns and Electronic Interface. The Valves control the flow of gas within the system. Columns separate gas into component parts for analysis and the Electronic Interface contains pressure and temperature sensors to detect and monitor the different gas components as they leave the GC Columns.

- 256KB Serial Flash Memory
- 3 Pressure Sensors
- 2 Thermal Conductivity Sensors



REF: N/A

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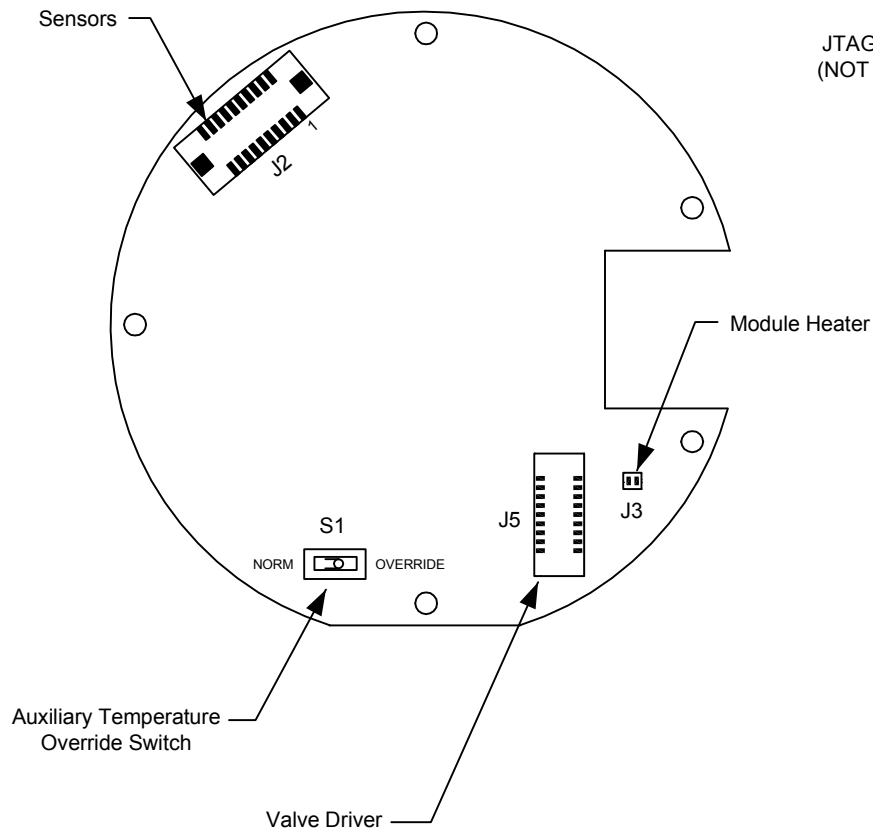
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ANALYTICAL PROCESSOR (2101565-XXX)

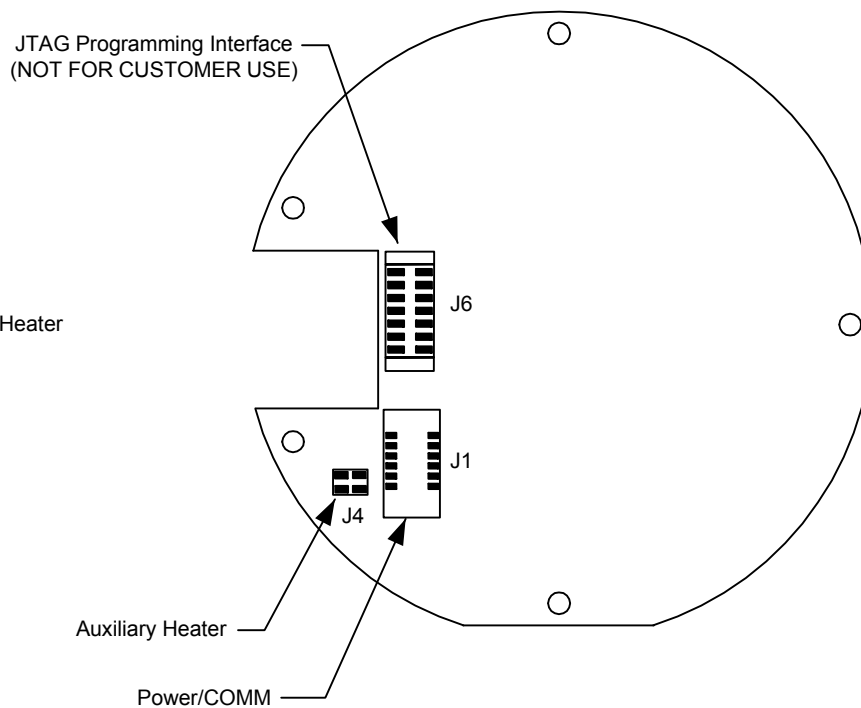
The Analytical Processor Board interfaces with the analog circuits to monitor temperatures and pressures and it also controls the processes. The data generated by the Analytical Processor is passed to the Digital Controller Board

- High-speed Serial Interface to Digital Controller Board
- Flash Memory
- Digital Signal Processor
- Analog- to- Digital Conversion Circuits

PRIMARY COMPONENT SIDE



SECONDARY COMPONENT SIDE



REF: N/A

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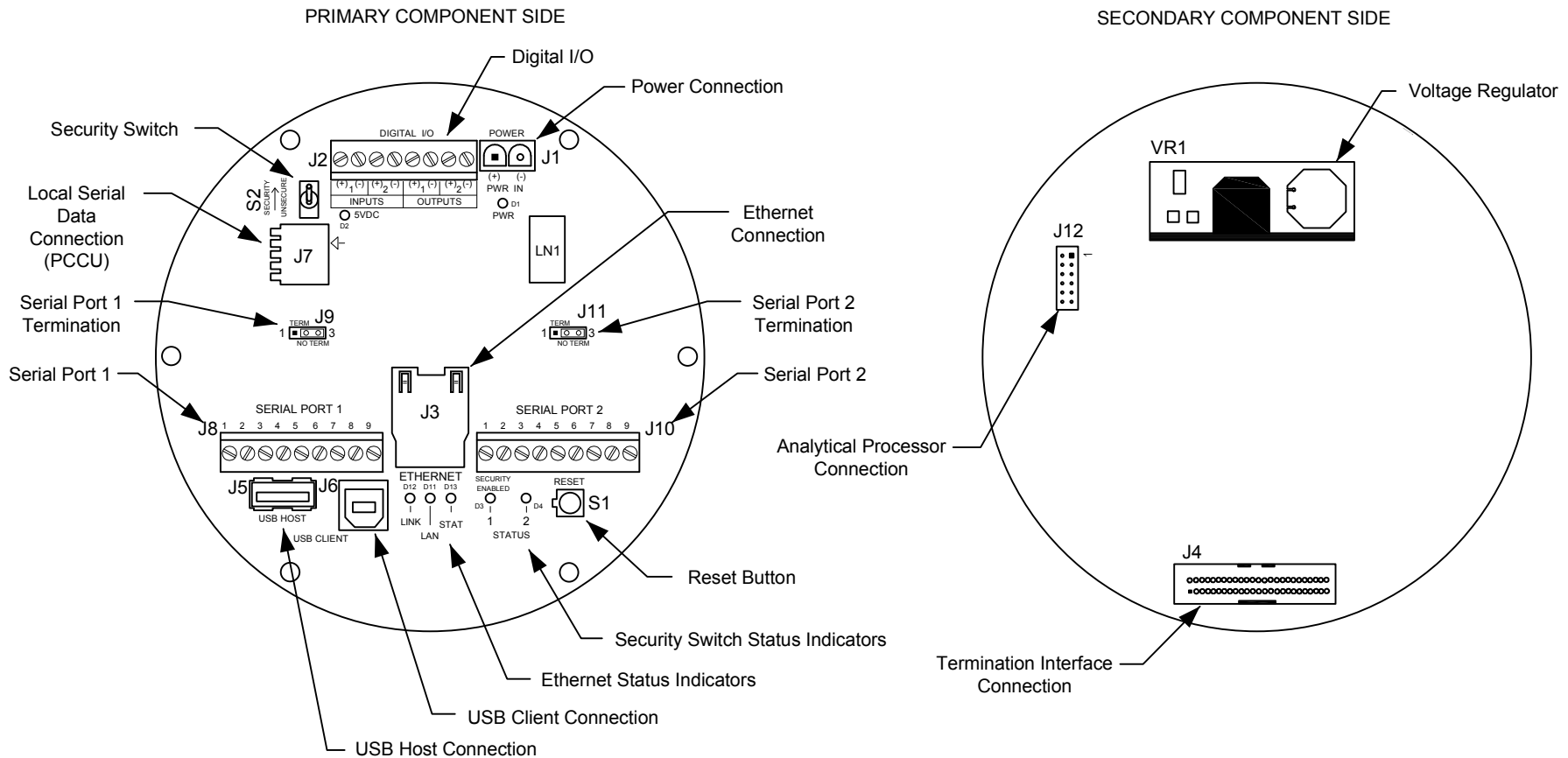
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TERMINATION PANEL (2102080-XXX)

The Termination Panel acts as a connection to the outside world. It features Transient Protection, a built-in voltage regulator, Positive Temperature Co-efficient fuses (PTC) and many other safeguards to protect the remainder of the system from electrical damage. All outside communications and I/O are channeled through this board. It's designed to be a low-cost, field-replaceable maintenance solution.

- Transient Protection • EMI/RFI Protection • PTC Fuses • Voltage Regulator
- Dedicated Local Serial Data Interface (Up to 115200 bps) • 256 byte IIC PROM
- 2 LED Status Indicators (Software Programmable) • 4 Power Monitor Status Indicators
- Digital processor with 2 DIs and 2 DOs
- 2 Remote Communications Ports (RS-232/RS-485/RS-422 Software Selectable)
- Ethernet Interface with 3 LED Status Indicators • USB Host Interface • USB Client Interface



REF: N/A

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