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Agilent Technologies

Edwards ATC and APG to Varian CT-100 Pin Adapter

FIELD INSTRUCTION SHEET

Manual No. 699908071
Revision A
Date August 2002

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Field Instruction Sheet

Varian Vacuum Technologies

Edwards ATC & APG to Varian CT-100 Pin Adapter

The L7439301 Adapter enables the installation of Varian's CT-100 Active Rough Vacuum Gauge into systems using an Edwards Active Thermocouple gauge or an Edwards Active Pirani gauge without removing the existing Edwards cable with an RJ45 connector. The Adapter maintains all functions of the Edwards product except the gauge ID signal, which is not available in the CT-100.

Connecting the Adapter

1. Plug the existing RJ45 connector from the system cable into the Adapter.
2. Proceed with CT-100 installation according to the CT-100 Instruction Manual.

Application

The CT-100 analog output differs from the analog output of Edwards gauges. Although the vacuum calibration of the CT-100 can be readjusted from the standard 1 VDC to 2 VDC, the remainder of the calibration curve will not match over most of the range. [It is useful to note that the Edwards Active Pirani gauge does not match the Edwards Active TC gauge, either.] You must make needed changes to the system for accurate display of pressure from the CT-100 analog output. If the setpoint output is being used as a status or trigger signal, changes are not necessary. The following table shows the connection cross-reference chart for the Adapter.

3. The Adapter is wired to the CT-100 Setpoint #1 contact.
The CT-100 Setpoint #2 contact may be used as a visual indicator.

Pin Equivalents

Edwards ATC & APG		Varian CT-100	
Pin #	Signal	Pin #	Signal
1	Power Supply +24 VDC	3	Power Supply +24 VDC
2	Power Supply Return	4	Power Supply Return
3	Gauge Output Signal	5	Gauge Output Signal
4	Gauge ID Signal		No connection
5	Signal Common	8	Signal Common
6	Setpoint Output	2	Setpoint #1
7	No connection		No connection
8	No connection		No connection

Technical Assistance

The final page of this document lists all the Varian offices from which you can obtain technical assistance. In the United States, contact Varian Vacuum Technologies Customer Service at 1-800-8Varian or on-line at vpl.customer.support@varianinc.com.

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