

# SSD Drives / Eurotherm AC/DC Drives

## Information Sheet for Crimson v2.0

### Compatible Devices

- 690+
- 650v
- 590+

### Verified Device

- 690 PB /0015/400/3/0/0021/US/0/0/0/0/0

### Device Option

The programmer enters a number from 0-9 for the Group ID, and a number from 0-15 for the Unit ID.

### Accessible Data

G3 Prefix	Data Type	Other Information
B	Boolean	1 for True, 0 for False
W	Integer	Integer Data
R	Real	Maximum 4 decimal places written
EE	Word	Read/Reset Latest Error Code
II	Word	Instrument Identity (Read Only)
V0	Word	Software Version (Read Only)
V1	Word	Keypad Version (Read Only)
!1	Word	Command (Write Only)
!2	Word	State (Read Only)
!3	Word	Save Command (Write Only)
!4	Word	Save State (Read Only)

Note: Reads of parameter types other than listed above, such as ENUM or STRING, should be done using the W selection. In the case of STRING, only the first 4 characters will be in the result, one byte for each character. Ex. "ABC" will be displayed as hexadecimal 27414243.

## **PARAMETER CONFIGURATION:**

The programmer selects the type of data desired, and enters the tag number of the parameter desired. For verification, the software automatically computes the Ascii character ID for that parameter and displays it once the selection is entered.

**NOTE: The driver does not know the actual data type of a parameter in the drive. When writing data, the programmer must match the data types, or incorrect values may result.**

### **BOOLEAN:**

READ: This expects the True/False status of a Boolean value, examining the second character of a hexadecimal value returned from the drive.

If the response is not a hexadecimal value, for example if a parameter with a real number response is requested, the Boolean value will be 0 only if the first digit returned is 0.

WRITE: The driver will write a value of 0 if the data is 0, otherwise 1.

### **WORD ( or INT ):**

READ: Returns 32 bits equal to the value of the data received.

WRITE: Sends the integer value to the drive.

### **REAL:**

READ: Converts the returned string to a floating-point value.

WRITE: Converts the entered floating-point number to a string and sends it to the drive. No more than 4 decimal places (rounding up) will be sent.

### **OTHER SELECTIONS:**

**EE:** Latest Error code. Any value can be written to reset this code.

**II, V0, V1, !2, !4:** Read-only machine status indicators.

**!1, !3:** Write-only machine commands. The experienced programmer will refer to the documentation of the 690 before writing data to these selections. The driver does not verify the data that is sent.

### Cable Information for G3 to Eurotherm 690

<b>G3 RS-232 Port</b>		<b>Direct to P3</b>	
<b>G3 PIN</b>	<b>Function</b>	<b>P3 Pin</b>	<b>Function</b>
5	TxD	4	RxD
2	RxD	3	TxD
4	0V	1	0V

<b>G3 RS-232 Port</b>		<b>Programming Cable to P3</b>	
<b>G3 PIN</b>	<b>Function</b>	<b>Female DB9</b>	<b>Function</b>
5	TxD	3	RxD
2	RxD	2	TxD
4	0V	5	0V