

Eurotherm 590 (Old Style)

Information Sheet for Crimson v2.0

Compatible Devices

- Eurotherm 590 Digital Drives – (not 590+)

Verified Device

- 591/0350/A

Device Options

The programmer sets the Group ID and the Unit ID.

Accessible Data

Prefix	Description	Action
TB	Tag Number – Boolean	Select Tag Number – Note 1
TI	Tag Number – Integer	Select Tag Number – Note 1
TR	Tag Number – Real	Select Tag Number – Note 1
PB	Parameter Number – Boolean	Select Parameter Number Directly
PI	Parameter Number – Integer	Select Parameter Number Directly
PR	Parameter Number – Real	Select Parameter Number Directly

Note 1: Tag Numbers cannot be directly addressed by the protocol. Therefore, all **Tag Numbers** are accessed using **Parameter Numbers (PNO) 111** and **127**. The Tag Number is written to **PNO 111**. Then, **PNO 127** is accessed for the result.

Therefore, the programmer should always use the **PNO** when both a **PNO** and a **Tag Number** are known for an item. This will maximize the efficiency of data transfer. E.g., “**Error Report**”, **PNO EE**, can be obtained using PI238 (EE Hex). See the documentation for the 590/591 for other parameter numbers.

Cable Information for RLC to Eurotherm 590/591

RS422

RLC 422/485 Port	590 Main Port (P1)
1 – TxB	RxB / RCV-
2 – TxA	RxA / RCV+
3 – RxA	TxA / XMT+
4 – RxB	TxB / XMT-
6 – 0V	0V

RS422

RLC 422/485 Port	590 Aux. Port (P2)
1 – TxB	4 – RxB / RCV-
2 – TxA	1 – RxA / RCV+
3 – RxA	6 – TxA / XMT+
4 – RxB	5 – TxB / XMT-
6 – 0V	2 – 0V
NO CONNECTION! MAY CAUSE DAMAGE	3 – 24V DO NOT CONNECT

RS232

RLC 232 Port	590 System Port (P3)
5 – TxD	4 – RxD
2 – RxD	3 – TxD
3/4 – 0V	1 – 0V
NO CONNECTION! MAY CAUSE DAMAGE	2 – 24V DO NOT CONNECT