

ADDENDUM TO WEST 4400 SETPOINT PROGRAMMER OPERATOR'S MANUAL (OM-0060-xx)

OM-0060-D1 (Part No. 59081)

SPECIAL OPTION S48 - MULTI-ZONE SETPOINT OFFSETS

ASSOCIATED DOCUMENTS

West 4400 Setpoint Programmer Operator's Manual OM-0060-xx (Part No. 59006)

INTRODUCTION

This Addendum supports the additional Program Define Mode features of the WEST 4400 fitted with Special Option S48 (Multi-Zone Setpoint Offsets). It should be read in conjunction with the WEST 4400 Setpoint Programmer Operator's Manual (see above). The West 4400 Setpoint Programmer, in Master Serial Communications Mode using WEST ASCII protocol, can remotely control the setpoint values of up to 32 slave WEST Temperature Controllers; this is essential in applications which require fine tuning of the temperature profile over different areas of a large process. With this special option, the 4400 can transmit the sum of the Setpoint and Setpoint Offset to the currently-addressed slave controller.

PRE-REQUISITES

WEST 4400 Setpoint Programmer fitted with the RS485 Serial Communications Option and S48 Special Option, configured for Communications Master Mode operation with WEST ASCII protocol. The slave controllers must be programmed to limit local setpoints.

PROGRAM DEFINE MODE

Two new parameters have been added to Program Define Mode (PARAMETERS COMMON TO ALL PROGRAMS - Program Number = A, Segment Number = Blank) immediately after the External Selection parameter:

Parameter	Message Display	Function	Available Settings
Zone Select	Zone Sel	Selects the zone for which the zone offset is to apply. ¹	1 - 32 inclusive (default = 1)
Zone Offset	SP offs	Setpoint offset value for selected zone. ²	± (Range Max. - Range Min) but limited by ability to display value correctly. ³ (Default = 0)

1. To enable adjustment of setpoint offsets while a program is running, LockProg must be set OFF.
2. Zone Offset is accessed only on first pass from Zone Select or when Zone Select has changed. Exit from Zone Offset returns to Zone Select.
3. Setpoint offsets can be set from -(Range Max. - Range Min.) to + (Range Max. - Range Min.) but are limited to displayable values. For instance, when input range 6710 (-328°F to 2503°F) is selected, the minimum setpoint offset is $-(2503 + 328) = -1999^{\circ}\text{F}$ (because -2831 cannot be displayed) and the maximum setpoint offset is $+ 2831^{\circ}\text{F}$.

TO SET PROGRAMS TO TRANSMIT THE SETPOINT/SETPOINT OFFSET SUM TO A SPECIFIED SLAVE CONTROLLER

With the Setpoint Programmer in Program Define Mode (Program Number = A, Segment Number = blank):

- 1.** Use the Scroll key to select the **Zone Select** parameter.
- 2.** Use the Up/Down keys to set the address (in the lower Main Display) of the desired slave controller (in the range 1 - 32).
- 3.** Press the Scroll key once to select the **Zone Offset** parameter.
- 4.** Use the Up/Down keys to set the Setpoint Offset value (in the lower Main Display) as desired (see notes above).

Repeat Steps 1 - 4 for each additional slave controller to be addressed.

Thereafter, the setpoint/setpoint offset sum will be transmitted to the defined slave controller(s).