

# DR4311 or DR4312, Recorder with Display

## Limit Control Configuration

### Special configuration for control and alarms

The DR4300 is available as a limit controller. Most set up groups described in 4.3.7 through 4.3.17 apply to limit control, and are configured for the limit controller the same way they are for other recorders. The exceptions are:

- control set up group, which contains special parameters for limit control in place of those described in 4.3.13. The limit control set up parameters that replace those in 4.3.13 are listed in Table 4-16.
- alarm set up group, which does not apply to limit control.

**Table 4-16 Limit Control Parameter Definitions**

Lower Display Prompt	Upper Display Range of Setting or Selection	Parameter Definition
LIMIT	HI LO <i>[factory setting]</i>	<b>TYPE OF LIMIT CONTROL</b> HI — Limit action occurs when PV exceeds SP. LO — Limit action occurs when PV is less than SP.
POWRUP	NORM RST <i>[factory setting]</i>	<b>POWER UP STATE</b> NORM — Normal limit control on power up. RST — Powers up in limit state. Recorder will not begin normal limit control until RESET key is pressed.*
SP HI	-999 to 9999 <i>[factory setting = 100]</i>	<b>SETPOINT HIGH RANGE LIMIT</b> — This parameter prevents the local setpoint from going above the value specified here. The setting must be equal to or less than the upper range of the input.
SP LO	-999 to 9999 <i>[factory setting = 0]</i>	<b>SETPOINT LOW RANGE LIMIT</b> — This parameter prevents the local setpoint from going below the value specified here. The setting must be equal to or greater than the lower range of the input.
XRSET	DIS <i>[factory setting]</i>  ENAB	<b>EXTERNAL RESET</b> — Use this parameter to enable or disable resetting the limit controller (taking it out of the limit state) using Remote Switch 1 (digital input 1).  DIS — When external reset is disabled, the limit controller can be reset only by pressing the RESET key on the recorder.*  ENAB — When external reset is enabled, the limit controller can be reset two ways: by pressing the RESET key on the recorder, or by turning on digital input 1 (contact closed).

\*This RESET key is a special key that replaces the MAN/AUTO key on limit controllers. This does not refer to the reset switch SW2 on the printed circuit assembly for the pen channel.