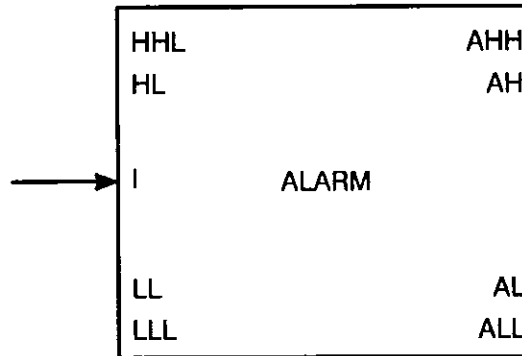


6.0 ALARM

This function can be used in AutoMax Control Block tasks and UDC Control Block tasks.



Function

If INPUT is equal to or exceeds any of the alarm limits, the proper ALARM output(s) are set TRUE.

Program Statement

```
CALL ALARM(INPUT=input%,           &
            HIGH_LIMIT=high_limit%, &
            LOW_LIMIT=low_limit%,    &
            HIGH_HIGH_LIMIT=high_high_limit%, &
            LOW_LOW_LIMIT=low_low_limit%, &
            ALARM_HIGH=alarm_high@,  &
            ALARM_LOW=alarm_low@,    &
            ALARM_HIGH_HIGH=alarm_high_high@, &
            ALARM_LOW_LOW=alarm_low_low@)
```

Inputs

I (INPUT) =

Signal input, type INTEGER. This parameter must be specified as a numeric symbol only (literal value not accepted).

HL (HIGH_LIMIT) =

Alarm high limit, type INTEGER. This is an optional parameter. It sets the high limit alarm value. The default is +32767.

LL (LOW_LIMIT) =

Alarm low limit, type INTEGER. This is an optional parameter. It sets the low limit alarm value. The default is -32768.

HHL (HIGH_HIGH_LIMIT) =

Alarm high-high limit, type INTEGER. This is an optional parameter. It sets the high_high limit alarm value. The default is +32767.

LLL (LOW_LOW_LIMIT) =

Alarm low-low limit, type INTEGER. This is an optional parameter. It sets the low-low limit alarm value. The default is -32768.

Outputs

AH (ALARM_HIGH) =

Alarm high output, type BOOLEAN. This parameter is optional. If INPUT is greater than or equal to HIGH_LIMIT, then ALARM_HIGH output is set TRUE.

AL (ALARM_LOW) =

Alarm low output, type BOOLEAN. This parameter is optional. If INPUT is less than or equal to LOW_LIMIT, then ALARM_LOW output is set TRUE.

AHH (ALARM_HIGH_HIGH) =

Alarm high-high output, type BOOLEAN. This parameter is optional. If INPUT is greater than or equal to HIGH_HIGH_LIMIT, then ALARM_HIGH_HIGH output is set TRUE.

ALL (ALARM_LOW_LOW) =

Alarm low-low output, type BOOLEAN. This parameter is optional. If INPUT is less than or equal to LOW_LOW_LIMIT, then ALARM_LOW_LOW output is set TRUE.

Notes

1. The order in which the outputs are programmed is unimportant. However, a minimum of one output must be programmed. If this requirement is not met, a compilation error will occur.