

T257P alarm number, in word and bit order. 7/14/21

- From communications command 66, the first 16 bits is alarmWord1, then alarmWord2, etc.
- There are 6 alarm words and 2 warning words. Not all alarms are active.
- Warning and alarms for the same parameter will have different criteria.
- These are listed LSB first

// alarmWord1

WDT_SYS_ERROR_ALARM	0	bit 0 (0x0000)
SYSTEM_ERROR_ALARM	1	
DEFAULT_HIGH_TEMP_ALARM	2	
DEFAULT_LOW_TEMP_ALARM	3	
NO_PROCESS_FLOW_ALARM	4	
ADC_SYSTEM_ERROR_ALARM	5	
ADC_RESET_ERROR_ALARM	6	
ADC_CALIB_ERROR_ALARM	7	
ADC_CONV_ERROR_ALARM	8	
I2C_SYSTEM_ERROR_ALARM	9	
EEPROM_SYSTEM_ERROR_ALARM	10	bit 10 (0x400)
SUPPLY_TEMP_SENSOR_ALARM	11	
SUPPLY_TEMP_SENSOR_OPEN_ALARM	12	
SUPPLY_TEMP_SENSOR_SHORT_ALARM	13	
SUPPLY_TEMP_SENSOR_LOCKED_ALARM	14	
GLOBAL_SUPPLY_SENSOR_ALARM	15	bit 15 (0x8000)

// alarmWord2

INTERNAL_2P5V_REF_ALARM	16
INTERNAL_2P5V_REF_HIGH_ALARM	17
INTERNAL_2P5V_REF_LOW_ALARM	18
INTERNAL_5V_REF_ALARM	19
INTERNAL_5V_REF_HIGH_ALARM	20
INTERNAL_5V_REF_LOW_ALARM	21
INTERNAL_3P3V_REF_ALARM	22
INTERNAL_3P3V_REF_HIGH_ALARM	23
INTERNAL_3P3V_REF_LOW_ALARM	24
FAN_FAILURE_ALARM	25
HW_TEMP_LOCKOUT_ALARM	26
PUMP_PS_FAULT_ALARM	27
IPC_FAILURE_ALARM	28
REMOTE_CONTROL_LOSS_ALARM	29
LOW_PLANT_FLOW_ALARM	30
PLANT_TEMP_ALARM	31

```
// alarmWord3
EXT_CONN_NOT_INSTALLED_ALARM      32 bit 0
AMB_TEMP_SENSOR_ALARM              33
HIGH_AMB_TEMP_ALARM                34
LOW_AMBIENT_TEMP_ALARM              35
HIGH_CONTROL_TEMP_ALARM             36
LOW_CONTROL_TEMP_ALARM              37
RTC_ERROR_ALARM                    38
EXTERNAL_RTD_SENSOR_ALARM           39
RETURN_TEMP_SENSOR_ALARM            40
EXTERNAL_THERMISTOR_ALARM           41
LOW_COOLANT_LEVEL_ALARM             42 bit 10 (0x0400)
LOW_PROCESS_FLOW_ALARM             43
SPARE_NON_CRITICAL_ALARM3          44
PS1A_CURRENT_ALARM                 45
PS1B_CURRENT_ALARM                 46
PS2A_CURRENT_ALARM                 47 bit 15
```

```
// alarmWord4
RETURN_TEMP_SENSOR_OPEN_ALARM       48
RETURN_TEMP_SENSOR_SHORT_ALARM      49
PLATE_SENSOR2_OPEN_ALARM            50
PLATE_SENSOR2_SHORT_ALARM           51
PLATE_SENSOR3_OPEN_ALARM            52
PLATE_SENSOR3_SHORT_ALARM           53
HSINK_SENSOR1_OPEN_ALARM            54
HSINK_SENSOR1_SHORT_ALARM           55
HSINK_SENSOR2_OPEN_ALARM            56
HSINK_SENSOR2_SHORT_ALARM           57
HSINK_SENSOR3_OPEN_ALARM            58
HSINK_SENSOR3_SHORT_ALARM           59
HSINK_SENSOR1_HIGH_TEMP_ALARM       60
HSINK_SENSOR2_HIGH_TEMP_ALARM       61
HSINK_SENSOR3_HIGH_TEMP_ALARM       62
HSINK_SENSOR_LOW_TEMP_ALARM         63
```

// alarmWord5

EXT_RTD_SENSOR_OPEN_ALARM	64
EXT_RTD_SENSOR_SHORT_ALARM	65
EXTERNAL_THERMISTOR_OPEN_ALARM	66
EXTERNAL_THERMISTOR_SHORT_ALARM	67
AMB_TEMP_SENSOR_OPEN_ALARM	68
AMB_TEMP_SENSOR_SHORT_ALARM	69
PS2B_CURRENT_ALARM	70
PS3A_CURRENT_ALARM	71
PS3B_CURRENT_ALARM	72
SPARE_NON_CRITICAL_ALARM4	73
SPARE_NON_CRITICAL_ALARM5	74
SPARE_NON_CRITICAL_ALARM6	75
SPARE_NON_CRITICAL_ALARM7	76
SPARE_NON_CRITICAL_ALARM8	77
SPARE_NON_CRITICAL_ALARM9	78
SPARE_NON_CRITICAL_ALARM10	79

// alarmWord6

SPARE_NON_CRITICAL_ALARM11	80
SPARE_NON_CRITICAL_ALARM12	81
SPARE_NON_CRITICAL_ALARM13	82
SPARE_NON_CRITICAL_ALARM14	83
SPARE_NON_CRITICAL_ALARM15	84
SPARE_NON_CRITICAL_ALARM16	85
SPARE_NON_CRITICAL_ALARM17	86
SPARE_NON_CRITICAL_ALARM18	87
SPARE_NON_CRITICAL_ALARM19	88
SPARE_NON_CRITICAL_ALARM20	89
SPARE_NON_CRITICAL_ALARM21	90
SPARE_NON_CRITICAL_ALARM22	91
SPARE_NON_CRITICAL_ALARM23	92
SPARE_NON_CRITICAL_ALARM24	93
SPARE_NON_CRITICAL_ALARM25	94
SPARE_NON_CRITICAL_ALARM26	95

// alarmWord7 (warningWord1)

LOW_PROCESS_FLOW_WARNING	96	These are warning, not alarms.
PROCESS_FLUID_LEVEL_WARNING	97	The machine will not stop for warnings.
SWITCH_CNTRL_TO_SPLY_WARNING	98	
HIGH_CONTROL_TEMP_WARNING	99	
LOW_CONTROL_TEMP_WARNING	100	
HIGH_AMBIENT_TEMP_WARNING	101	
LOW_AMBIENT_TEMP_WARNING	102	

SLOW_FAN_WARNING	103
REMOTE_CONTROL_LOSS_WARNING	104
MODE_MISMATCH_ALARM	105
PLANT_TEMP_WARNING	106
SPARE_WARNING4	107
SPARE_WARNING5	108
SPARE_WARNING6	109
SPARE_WARNING7	110
SPARE_WARNING8	111

//alarmWord8 (warningWord2)

SPARE_WARNING9	112
SPARE_WARNING10	113
SPARE_WARNING11	114
SPARE_WARNING12	115
SPARE_WARNING13	116
SPARE_WARNING14	117
SPARE_WARNING15	118
SPARE_WARNING16	119
SPARE_WARNING17	120
SPARE_WARNING18	121
SPARE_WARNING19	122
SPARE_WARNING20	123
SPARE_WARNING21	124
SPARE_WARNING22	125
SPARE_WARNING23	126
SPARE_WARNING24	127

UNKNOWN_ALARM_WARNING	128
-----------------------	-----