















Icon	Priority Level	Meaning (Continued)
		<ul style="list-style-type: none"> Data exchanged
		<ul style="list-style-type: none"> No data exchange
		<ul style="list-style-type: none"> Write access enabled
		<ul style="list-style-type: none"> Write access disabled

General Fault Codes





Notes:

- If more than one fault is present, the device status indicator and text for each fault alternate at 2 second intervals.
- Some faults cause the device to go to Failsafe mode (Fault 52). These are indicated with an asterisk (*).










General Fault Codes			
Code / Icon		Meaning	Corrective Action
S: 0	*	The device was unable to get a measurement within the Fail-safe LOE Timer period. Possible causes: faulty installation, antenna material buildup, foaming/other adverse process conditions, invalid calibration range.	Ensure installation details are correct. Ensure no antenna material buildup. Clean if necessary. Adjust process conditions to minimize foam or other adverse conditions. Correct range calibration. If fault persists, contact your local Siemens representative.
			
S: 2	*	Unable to collect profile because of a power condition that is outside of the operating range of the device.	Repair required: contact your local Siemens representative.
			

General Fault Codes (Continued)			
Code / Icon		Meaning	Corrective Action
S: 3		Device is nearing its lifetime limit according to the value set in Maintenance Required Limit.	Replacement is recommended.
			
S: 4		Device is nearing its lifetime limit according to the value set in Maintenance Demanded Limit.	Replacement is recommended.
			
S: 6		Sensor is nearing its lifetime limit according to the value set in Maintenance Required Limit.	Replacement is recommended.
			
S: 7		Sensor is nearing its lifetime limit according to the value set in Maintenance Demanded Limit.	Replacement is recommended.
			
S: 8		Service interval as defined in Maintenance Required Limit has expired.	Perform service.
			
S: 9		Service interval as defined in Maintenance Demanded Limit has expired.	Perform service.
			
S: 11		Internal temperature sensor failure.	Repair required: contact your local Siemens representative.
			
S: 12		Internal temperature of device has exceeded specifications: it is operating outside its temperature range.	Relocate device and/or lower process temperature enough to cool device. Inspect for heat-related damage and contact your local Siemens representative if repair is required. Fault code will persist until a manual reset is performed using PDM or the LCD interface.
			



General Fault Codes (Continued)

Code / Icon		Meaning	Corrective Action
S: 17		Calibration interval as defined in Maintenance Required Limit has expired.	Perform calibration.
S: 18		Calibration interval as defined in Maintenance Demanded Limit has expired.	Perform calibration.
S: 28		* Internal device failure caused by a RAM memory error.	Repair required: contact your local Siemens representative.
S: 29		* EEPROM damaged.	Repair required: contact your local Siemens representative.
S: 31		* Flash error.	Repair required: contact your local Siemens representative.
S: 33		* Factory calibration for the internal temperature sensor has been lost.	Repair required: contact your local Siemens representative.
S: 34		* Factory calibration for the device has been lost.	Repair required: contact your local Siemens representative.
S: 35		* Factory calibration for the device has been lost.	Repair required: contact your local Siemens representative.

General Fault Codes (Continued)





Code / Icon		Meaning	Corrective Action
S: 36	*	Unable to start microwave module.	Cycle power. If fault persists, contact your local Siemens representative.
			
S: 37	*	Measurement hardware problem.	Cycle power. If fault persists, contact your local Siemens representative.
			
S: 38	*	Microwave module hardware failure: unable to calculate distance measurement.	Cycle power. If fault persists, contact your local Siemens representative: repair required.
			
S: 43	*	Factory calibration for the radar receiver has been lost.	Repair required: contact your local Siemens representative.
			
S: 45	*	No valid boot program detected: firmware corrupt.	Repair required: contact your local Siemens representative.
			
S: 48	*	User configuration is invalid. One or more of parameters: Low Calibration Point, High Calibration Point, and/or Auto False-Echo Suppression, are set to invalid values.	Reconfigure the unit. Ensure the difference between High Calibration Point and Low Calibration Point is not less than or equal to zero; do a master reset.
			
S: 49	*	EEPROM corrupt.	Repair required: contact your local Siemens representative.
			
S: 50	*	EEPROM corrupt.	Repair required: contact your local Siemens representative.
			
S: 51	*	EEPROM corrupt.	Repair required: contact your local Siemens representative.
			

General Fault Codes (Continued)

Code / Icon	Meaning	Corrective Action
S: 52 	Fail-safe is activated. Possible causes: 1) hardware failure; 2) memory failure; 3) Fail-safe LOE timer expired – possible causes: faulty installation, antenna material buildup, foaming/other adverse process conditions, invalid calibration range.	For 3): Correct configuration; ensure installation is correct; no antenna material buildup; adjust process conditions to minimize foaming/other adverse conditions; correct calibration range. If fault persists, or for 1) and 2), contact your local Siemens representative.
S: 53 	* Configuration lost: one or more parameter settings have been lost. This may occur after a firmware upgrade causes user parameters to be reset.	Restore user parameters using SIMATIC PDM.

Operation Troubleshooting

Operating symptoms, probable causes, and resolutions.

Symptom	Cause	Action
Display shows  S: 0 LOE	level or target is out of range	<ul style="list-style-type: none"> • check specifications • check 2.2.1.6. <i>Low Calibration Pt. (LOW CALIB. PT.)</i> • increase 2.2.4.5.1. <i>Echo Confidence</i>
Display shows  S: 0 LOE	material build-up on antenna	<ul style="list-style-type: none"> • clean the antenna • re-locate SITRANS LR260
Display shows  S: 0 LOE	location or aiming: <ul style="list-style-type: none"> • poor installation • flange not level 	<ul style="list-style-type: none"> • check to ensure nozzle is vertical • use 2.2.5.2. <i>Auto False Echo Suppression</i> and check 2.2.5.3. <i>Auto Suppression Range</i> to ensure nozzle protrudes from end of vessel nozzle.
Display shows  S: 0 LOE	antenna malfunction: <ul style="list-style-type: none"> • temperature too high • physical damage 	<ul style="list-style-type: none"> • check 3.14.1. <i>Current Internal Temperature (CURR. INTERN. TEMP.)</i> • relocate