

Error codes for the 4020/4080 analyzer

Teledyne Analytical Instruments

The following error codes are defined for the system Self-Test in the TAI 4020/4080 analyzer:

- Note that the preamp test is valid only at startup or when the FID has been inactive for a period of time and has cooled.
- For the POWER SUPPLY test, the power supply voltages are measured
 - "5V "
 - GOOD
 - The 5V power supply is okay
 - BAD
 - The 5V power supply is too low
 - "15V "
 - GOOD
 - The 15V power supply is okay
 - BAD
 - The 15V power supply is too low or too high
- For the DAC test, the DACs are set to a predetermined output, then that output is measured
 - "DAC A "
 - GOOD
 - Channel 'A' of the DAC is okay
 - BAD
 - Channel 'A' of the DAC is out of tolerance
 - "DAC B "
 - GOOD
 - Channel 'B' of the DAC is okay
 - BAD
 - Channel 'B' of the DAC is out of tolerance
- For the PREAMP test, the FID signal input is tested at all gains while the FID is inactive.
 - "Pre L "
 - GOOD
 - The inactive output of the FID is good in the low gain
 - BAD
 - The inactive output of the FID is too high in the low gain
 - "Pre M "
 - GOOD
 - The inactive output of the FID is good in the mid gain
 - BAD
 - The inactive output of the FID is too high in the mid gain
 - "Pre H "
 - GOOD
 - The inactive output of the FID is good in the high gain
 - BAD
 - The inactive output of the FID is too high in the high gain