
EMC Station Manager® Data Logger Validity Flags

The following describes the data validity flags used by a Station Manager data logger.

1. Each averaged data value stored in Station Manager's data files on hard disk has an associated letter-value validity flag.
2. A listing of validity flags in the data files on hard disk is provided in Item 6.
3. Validity flags in Station Manager's data files can be either upper case or lower case.
 - A. Upper case validity flags represent a valid average data value and the occurrence of the condition described in the flag list.
 - B. Lower case validity flags represent an invalid average data value and the occurrence of the condition described in the flag list.
4. Valid averages in Station Manager's data files have a blank space in the validity flag
 - A. The majority of data flags in a typical Station Manager data file should be blank, indicating that the associated data value is valid.
 - B. When a flag is present with an average data value, the validity condition is as shown in the flag list in Item 6.
5. When a Station Manager data logger is polled with different polling protocols, such as EMC's System Manager, ESC, or SUMX/ETC, the validity flags transmitted by the Station Manager data logger will correspond to those used by that protocol.
 - A. Station Managers polled with EMC's System Manager protocol will respond with EMC's unique Station Manager validity flags.

6. The following lists the validity flags the Station Manager data logger supports for EMC System Manager polling.

A. **System Manager Polling Protocol**

Station Manager Validity Flags	Condition	Validity Status
P	Power Failure	Valid Average
p	Power Failure	Invalid Average
C	Calibration Activity	Valid Average
c	Calibration Activity	Invalid Average
D	Off-Line Part of Hour	Valid Average
d	Off-Line Part of Hour	Invalid Average
B	Bad Condition	Valid Average
b	Bad Condition	Invalid Average
+	Positive Over Range	Valid Average
m	Positive Over Range	Invalid Average
-	Negative Under Range	Valid Average
ℓ	Negative Under Range	Invalid Average
R	Rate of Change	Valid Average
r	Rate of Change	Invalid Average
S	Startup	Valid Average
s	Startup	Invalid
Z	Shutdown	Valid Average
z	Shutdown	Invalid