Logging Period Calculations For WS-16 Systems

In The Set Up Menu ~ Press 4. Logging Period.
(Normally the averaging period and the Logging Period are set for the Same Number of minutes)

The menu will ask you to enter a number between 1 and 60 minutes. Enter your selection and press, enter.
The number of days of data that can be stored in the memory is a function of the
logging period, the Type of Data and the number of sensors activated.

1) Standard Memory 128K ~ Overhead 30K Available for Storage 98K
2) Each Record= 6 bytes for Date and Time 2 bytes for Sensor Data (WindSpeed requires 4 bytes)
3) Formula to Determining Number of Records

$$\frac{98{,}000}{[\,6+(2X \text{ No. of Sensors})\,]}$$

4) Example: 1 (with 6 sensors being Logged)

SENSOR	BYTES/RECORD
Wind Speed	2
Wind Speed Peak	2
Wind Direction	2
Temperature	2
Relative Humidity	2
Barometric Pressure	2
Rainfall	2
TOTAL	14

$$\frac{98{,}000}{[6+(2X7)]} = \frac{98{,}000}{20} = 4{,}900 \text{ RECORDS}$$

If logging period is once per hour, 24 records per day

$$\frac{4{,}900}{24} = 204 \text{ Days}$$

If logging period is 15 minutes, 96 records per day

$$\frac{4{,}900}{96} = 51 \text{ Days}$$

5) Example: 2 (with Wind Speed & Dir. Only Logging Period every 10 Minutes) 56 Days to fill memory
SENSOR / BYTES/RECORD ~ Wind Speed 2 + Wind Speed Peak + Wind Direction 2 ~ TOTAL = 6

$$\frac{98{,}000}{[6+(2X3)]} = \frac{98{,}000}{12} = 8{,}166 \text{ RECORDS}$$

If logging period is 10 minutes, (6/hr X 24 hr) = 144 records per day

$$\frac{8{,}166}{144} = 56 \text{ Days}$$