


9. Data Logging onto Memory Card


Initial Set-up

1. Insert memory card (32MB to 2GB) into the top-right of the handheld display.
2. Go to **Data Processing** -> **Automatic Measurement** -> **Save to MMC** (multi-media card). This is the time interval that each data snapshot is recorded to the memory card (min. 1sec, max 255sec). Input desired amount in seconds and press **OK**.
3. It is helpful to set the **F1** shortcut key to **Data Processing** so that the data logger can be easily accessed when you are in **Gas Analysis**. From the Main Menu, go to **Adjustments** -> **Internal** -> **F1 Hotkey** and select **Data Processing** then press **OK**.



Data Logging

1. Within **Gas Analysis**, press **F1** and select **Automatic measurement** -> **Datalogger** -> **"Start dl? Are you sure?"** -> Press **F1**
2. Analyzer is now in **Datalogging** mode. The blinking disk in the top right corner indicates that the analyzer is currently logging data. Press  twice and select **Gas Analysis** to view real-time measurements.
3. To stop data logging, press **F1** and select **Automatic measurement** -> **Datalogger** -> **"Finish dl? Are you sure?"** -> Press **F1**

Automatic measu.	
Automatic	
Datalogger	
Automatic time	120 min
Measurem. time	115 mi
Save to MMC	10 sec
CSV+Header	
Quit with:	

When finished, press down on the memory card to release, and insert the card into a card reader on a computer to view the files (.csv format). Each data logging term will be saved separately as J2KDL-00, J2KDL-01, J2KDL-02, etc. Open in Microsoft Excel.

18. Description of Data Fields using J2KN Data Logging onto Memory Card

File format: J2KDL-xx.csv (comma-separated-values)

Column	Description	Remark / Example
A	Date	DD.MM.YYYY
B	Time	HH:MM:SS
C	O2 in vol.%	0.0 – 21.0
D	CO in ppm	0 – 4000
E	NO in ppm	0 – 4000
F	NO2 in ppm	0 – 500
G	SO2 in ppm	0 – 5000
H	CO converted*	CO corrected to reference O2%
I	NO converted*	NO corrected to reference O2%
J	NO2 converted*	NO2 corrected to reference O2%
K	NOX converted*	NOx corrected to reference O2%
L	SO2 converted*	SO2 corrected to reference O2%
M	T. Gas in °C or °F	0 – max temp.
N	T. Air in °C or °F	0 – max temp.
O	Draft in hPa	0.00 – 20.00
P	CO2 in vol.%	0.0 – 25.0
Q	Efficiency in %	0.0 – 120.0
R	Losses in %	0.0 – 100.0
S	Excess air	> 1.00
T	Dew point in °C or °F	0 – max temp.
U	Poisoning index	> 0.0
V	O2 (gas channel check) in vol.%	0.0 – 21.0
W	CO (gas channel check) in ppm	Related to 0.0 vol.% O2
X	CO (gas channel check) in ppm	Measured value
Y	O2 (O2 check) in vol.%	0.0 – 21.0
Z	T. Boiler	0 - 999
AA	T. Sensor	0 - 99
AB	O2 reference %	0.0 – 21.0
AC	Unit	0=ppm 1=mg/m3 2=mg/kWh 3=mg/MJ
AD	Norm	N = corrected to reference O2%
AE	Fuel type number	Index acc. to instrument table
AF	Fuel type text	Text acc. to instrument table
AG	Soot 1	0.0 – 9.9
AH	Soot 1	0.0 – 9.9
AI	Soot 1	0.0 – 9.9
AJ	Oil trace	0=no 1=yes
AK	20 characters text	
AL	20 characters text	
AM	16 characters text	
AN	Serial number	
AO	CO (O2 check) in ppm	
AP	Zug (O2 check) in hPa	
AQ	CxHy	
AR	Number copy data	
AS	T1 (ΔT-measurement)	
AT	T2 (ΔT-measurement)	
AU	Velocity	m/s
AV-AW	Comma	Reserved
AX	Comment text	
AY	Comment text	
AZ	Comment text	
BA	Comment text	
BB	H2 in ppm	
BC	H2 converted*	H2 corrected to reference O2%
BD	Sensor # 6 in ppm	
BE	Sensor 6 converted *	Sensor 6 corrected to reference O2%
BF	dP (velocity) in Pa	0 – 1000.00
BG	Air pressure in hPa	300 – 1100
BH	Last column	0
	CR-LF	#13#10

* converted to unit (column AC) and converted on O2 ref. (Column AB) when column AD = N