

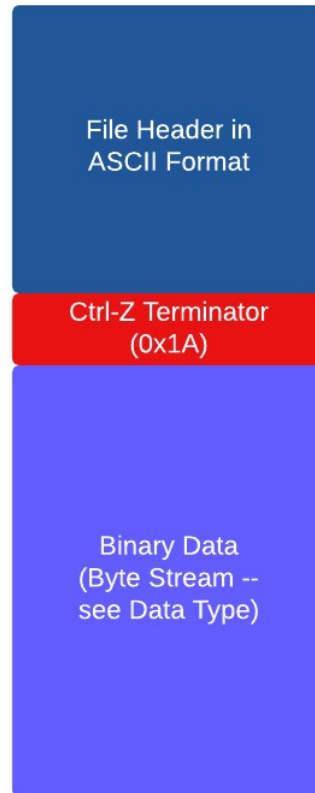


Computer Methods (a division of Physio Systems, Inc.)

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PhoenixKonnnect Data File Specification

Data File Structure:



File Header Format:

The ASCII header portion of the data file is structured in Windows "INI" file format consisting of sections and keys. The name of a section in the INI file is entered inside the square brackets. Each section contains several keys (the key must be assigned to the section that begins in the file before this key). Each line of the header is terminated with CRLF (0x0D followed by 0x0A). A description of this format can be found at https://en.wikipedia.org/wiki/INI_file.

The header itself is terminated with a Ctrl-Z byte (0x1A). Binary data follows the Ctrl-Z and is decoded by the application based on the data type defined in the header.



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HEADER SPECIFICATION	
Section / Field	Description
[SIGNAL]	
TESTID	Name of folder containing signal directory and data files
REFNO	Reference number of signal in the directory
TIME	Local timestamp of when data file was created
EVENT	Number of the data acquisition event (each time a run of data is collected, the event number is incremented)
DESCRIPTION0	Free format description
DESCRIPTION1	Free format description
DESCRIPTION2	Free format description
DESCRIPTION3	Free format description
UNIT	Engineering unit label
DASCHANNEL	Hardware channel number
XDCRID	Name of the assigned transducer
REQUESTFULLSCALE	Desired full scale for the measurement (in engineering units)
CHTYPE	Channel's device family
STATUS	Channel's setup status – READY indicates the channel was properly configured for data collection.
POLARITY	Signal polarity (N=normal, R=reversed)
[DSP]	
SIGNAL	Friendly description of the signal
DATATYPE	Data type* of binary stream
VERTSCALE	Scaling factor by which to multiply the data elements to convert them to engineering units
VERTOFFSET	Offset to be added to the scaled data points to arrive at the actual value in engineering units.
VERTUNITS	Name of engineering units
RECLN	Number of data elements
HORZSCALE	Scaling factor by which to multiply data point index (0 to RECLN-1) to convert the index to horizontal units
HUNITPERSEC	Number of horizontal units per second
HORZOFFSET	Offset in horizontal units to be added to the scaled index values to arrive at the actual abscissa value in horizontal units
HORZUNITS	Name of horizontal units
XDCRSENS	Transducer sensitivity (volts per engineering unit) – included in this section of header for reference
[XDCR]	
ID	Unique name for transducer associated to the signal
CALMETHOD	Calibration method used during setup phase
CONFIGURATION	Specifies limits for validation checks during setup phase
FULLSCALE	Defines maximum allowable level for calibration sensitivity



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	values
SENS0	Zeroth order sensitivity expressed in Volts per Engineering units
GAUGE OHMS	Transducer Gauge Resistance. This is the nominal, or average output resistance of the transducer.
ARM1RES	Arm number 1 resistance. This applies to bridge-type transducers only.
ARM2RES	Arm number 2 resistance
ARM3RES	Arm number 3 resistance
ARM4RES	Arm number 4 resistance
ARMCOMP	Arm compensation factor. This is the correction value for padded bridges.
UNIT	Engineering units. These are physical transducer units.
MFGNAME	Free-format description
MFGPN	Free-format description
CALDUE	Date calibration is due
CALDATE	Date of last calibration

*Data Types:

Name	# bytes	Range of Values
CHAR	1	-128 to 127
SHORT	2	-32768 to 32767
LONG	4	-2^{31} to $2^{31}-1$
UCHAR	1	0 to 255 (unsigned char)
USHORT	2	0 to 65535 (unsigned short)
ULONG	4	0 to $2^{32}-1$ (unsigned long)
FLOAT	4	IEEE notation
DOUBLE	8	IEEE notation
BIT	(1 bit)	0 or 1