

# AutoCommand

The automatic conversion of Monatec's  
Data Logger email files to text files



## USER GUIDE

### Benefits

#### **Unattended Processing** -

Application resides on your PC and is scheduled to run using your scheduler software.

**Multiple File Formats** - The user can select the file format they prefer.

**Automatic Conversion** - The software performs the function of converting the Raw Data File to a Text File. All interval data are in the real units of measure, ie Kl's, m3 etc.

**Variable Path Names** - The user can select where the converted data is to be stored.

**Inbuilt Email Client** - The software has its own email client and will run independently of your existing email software.

*AutoCommand* brings ease and unattended operation to the receiving of meter interval data from the emails sent by your data logger. Users only need to set up the email address in the Data Logger to a standard POP Mail Server account. *AutoCommand* is then set to run using your PC's scheduling program as often as you want. If you have many Data Loggers emailing at different times, you may want to set the program to run every half hour. More typically however users set the Data Logger to send emails overnight and schedule *AutoCommand* to run once every morning, however, how you operate is up to you.

*AutoCommand* will then retrieve the emails and create text or CSV files, in the format you have initially configured. The good news for users is that the program automatically converts the number of pulses in each time interval into real units of measure. That means you will know exactly how much water, gas or electricity is being used in each interval.

*AutoCommand* will also remove the emails from the server, so it is important that if you want the emails backed up that you program the Data Logger to also send the emails to a second email account or configure your email server to automatically create backups.

Once a text file has been created it is ready to be imported into your own database application for analysis, plotting and viewing. You can even set your application to run the program and then import the data, so you won't need to set up the PC's scheduler program.

All the features are set in the Configuration file which is programmed using a text editor. Once they have been set the program operates in background mode and is not seen running. You will simply see your text files being created in your nominated directory location.

If you would prefer to have your emails sent to Microsoft® OUTLOOK® the program *LOOKOUT* is also available from Monatec that will retrieve the email from you nominated inbox and then be processed in the same way by *AutoCommand*.

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## AUTOCOMMAND USER GUIDE

1. Install the Lookout Software.
  - Double Click "setup.exe" file from CD and follow prompts
  - After installation, go to "Start/Programs/AutoCommand" and copy AutoCommand.exe from the CD into the above directory. Overwrite the existing file. Then click AutoCommand to run application.
  - You will be prompted with a product code. Phone Monatec on +61 3 9874 2480 to obtain a license key and further instructions in setting up the program. **NOTE:** the Program does NOT have a user Interface as it has been designed to operate in background mode and use as little memory resource as possible.
2. The format of the file produced by AutoCommand can be varied by the user by editing the Monita.ini file for the correct data format.

**Please note the file can only be edited by a text editor such as Wordpad or NotePad. Any attempt to use a Word Processing program like WORD will result in the program not working.**

A sample of the INI file is shown below.

```
[Settings]
RawPath="."
FolderNme=
Save=".bak"
Header=""
Seperator=", "
OutFilePrefixMeter="M-"
OutFilePrefixHistory="H-"
OutFileExtension=".csv"
OutFilePrefix="L-"
MailDebugPrefix="RAW-"
DataFormat="[ESN][Seperator][DD/MM/YY][Space][HH:MM:SS][Seperator][INTERVAL][Seperator]
[INPUT1][Seperator][INPUT2][Seperator][INPUT3][Seperator][INPUT4]"
DataFormat="[ESN][%tHello][Seperator][%dd-mmm-
yy][Space][HH:MM:SS][Seperator][INTERVAL][Seperator][INPUT1][Seperator][INPUT2][Seperato
r][INPUT3][Seperator][INPUT4]"
Footer=""
POP3=""
MailName=""
MailPassword=""
MailPort="110"
# Valid Tokens
# [ESN]
# [ShortDesc]
# [Seperator]
```

# [NewLine]  
# [Space]  
# [DD/MM/YY]  
# [MM/DD/YY]  
# [YY/MM/DD]  
# [%dxxxxxxx] where xxxxxxx is date format string e.g. [%dd-mmm-yy] gives 6-Mar-06  
# [HH:MM:SS]  
# [INTERVAL]  
# [INPUT1]  
# [INPUT2]  
# [INPUT3]  
# [INPUT4]  
# [IP1Desc]  
# [IP2Desc]  
# [IP3Desc]  
# [IP4Desc]  
# [IP1Units]  
# [IP2Units]  
# [IP3Units]  
# [IP4Units]  
# [IP1COUNT]  
# [IP2COUNT]  
# [IP3COUNT]  
# [IP4COUNT]

Each of the Variables are explained below:

#### **FILE OUTPUT SETTINGS**

RawPath=C:\program files\monatec  
FolderNme=Auto

When the POP3 field is set to POP3= ( ie blank) then Autocommand will process RAW files either manually downloaded or created from OUTLOOK emails and the LOOKOUT program.

The RawPath name is where Autocommand will find the RAW files for processing. The FolderNme is the Inbox sub folder from where LOOKOUT will retrieve the email for processing. The collected Raw file will then be placed in the RawPath folder.

If MailDebugPrefix is set to "" (i.e. nothing) then the mail files are not saved. If we have MailDebugPrefix="RAW-" then a RAW data file is created.

#### **MAIL SERVER**

You will need to set up the Mail Server details as follows -:

POP3="mail.isp.com.au"

```
MailName="UserName"  
MailPassword="Password"  
MailPort="110"
```

And replace username with your user name and password.

You will need to ensure that this mailbox is not being used by any other email client whilst AutoCommand is accessing the mailbox.

## **HEADER & FOOTERS**

Note the Header and Footer fields have not yet been implemented.

## **FILE NAMES**

You can vary the prefix and file extensions by using the following commands.

```
OutFilePrefixMeter="M-"  
OutFilePrefixHistory="H-"  
OutFileExtension=".csv"  
OutFilePrefix="L-"
```

## **DATA FORMAT**

The Data Format can be manipulated by placing the fields in the required order. Also other text separators may be used by changing the following field.

```
Seperator=","
```

Converted Files will be placed in the Save directory. Here it is in the BAK directory of the folder from which Autocommand is being run.

```
Save=".bak"
```

New lines can be created for each input if required using the [NewLine] Token.  
Spaces can be created using the [Space] token.

## **DATE FORMAT STRING**

Date-Time Format Strings specify the formatting of date-time values when they are converted to text and the standard Date and Time Tokens are not suitable.

Values

- c Displays the date using the format given by the ShortDateFormat global variable, followed by the time using the format given by the LongTimeFormat global variable. The time is not displayed if the date-time value indicates midnight precisely.
- d Displays the day as a number without a leading zero (1-31).

- dd Displays the day as a number with a leading zero (01-31).
- ddd Displays the day as an abbreviation (Sun-Sat) using the strings given by the ShortDayNames global variable.
- dddd Displays the day as a full name (Sunday-Saturday) using the strings given by the LongDayNames global variable.
- ddddd Displays the date using the format given by the ShortDateFormat global variable.
- dddddd Displays the date using the format given by the LongDateFormat global variable.
- e Displays the year in the current period/era as a number without a leading zero ( Japanese, Korean and Taiwanese locales only).
- ee Displays the year in the current period/era as a number with a leading zero (Japanese, Korean and Taiwanese locales only).
- g Displays the period/era as an abbreviation (Japanese and Taiwanese locales only).
- gg Displays the period/era as a full name. (Japanese and Taiwanese locales only).
- m Displays the month as a number without a leading zero (1-12). If the m specifier immediately follows an h or hh specifier, the minute rather than the month is displayed.
- mm Displays the month as a number with a leading zero (01-12). If the mm specifier immediately follows an h or hh specifier, the minute rather than the month is displayed.
- mmm Displays the month as an abbreviation (Jan-Dec) using the strings given by the ShortMonthNames global variable.
- mmmm Displays the month as a full name (January-December) using the strings given by the LongMonthNames global variable.
- yy Displays the year as a two-digit number (00-99).
- yyyy Displays the year as a four-digit number (0000-9999).
- h Displays the hour without a leading zero (0-23).
- hh Displays the hour with a leading zero (00-23).
- n Displays the minute without a leading zero (0-59).
- nn Displays the minute with a leading zero (00-59).
- s Displays the second without a leading zero (0-59).
- ss Displays the second with a leading zero (00-59).

- z        Displays the millisecond without a leading zero (0-999).
- zzz     Displays the millisecond with a leading zero (000-999).
- t        Displays the time using the format given by the ShortTimeFormat global variable.
- tt      Displays the time using the format given by the LongTimeFormat global variable.
  
- am/pm   Uses the 12-hour clock for the preceding h or hh specifier, and displays 'am' for any hour before noon, and 'pm' for any hour after noon. The am/pm specifier can use lower, upper, or mixed case, and the result is displayed accordingly.
  
- a/p     Uses the 12-hour clock for the preceding h or hh specifier, and displays 'a' for any hour before noon, and 'p' for any hour after noon. The a/p specifier can use lower, upper, or mixed case, and the result is displayed accordingly.
  
- ampm   Uses the 12-hour clock for the preceding h or hh specifier, and displays the contents of the TimeAMString global variable for any hour before noon, and the contents of the TimePMString global variable for any hour after noon.
  
- /        Displays the date separator character given by the DateSeparator global variable.
  
- :        Displays the time separator character given by the TimeSeparator global variable.
  
- 'xx'/'"xx" Characters enclosed in single or double quotes are displayed as-is, and do not affect formatting

## FIELD NAMES

[ESN]	<b>E</b> lectronic <b>S</b> erial <b>N</b> umber of the Monita 6 digits Numeric
[ShortDesc]	Short Description of the Device
[INTERVAL]	Logging Interval in seconds
[INPUT1]	Number of Scaled Units on Input 1 in the logging Interval
[INPUT2]	Number of Scaled Units on Input 2 in the logging Interval
[INPUT3]	Number of Scaled Units on Input 3 in the logging Interval
[INPUT4]	Number of Scaled Units on Input 4 in the logging Interval
[IP1Desc]	Input 1 text Description
[IP2Desc]	Input 2 text Description
[IP3Desc]	Input 3 text Description

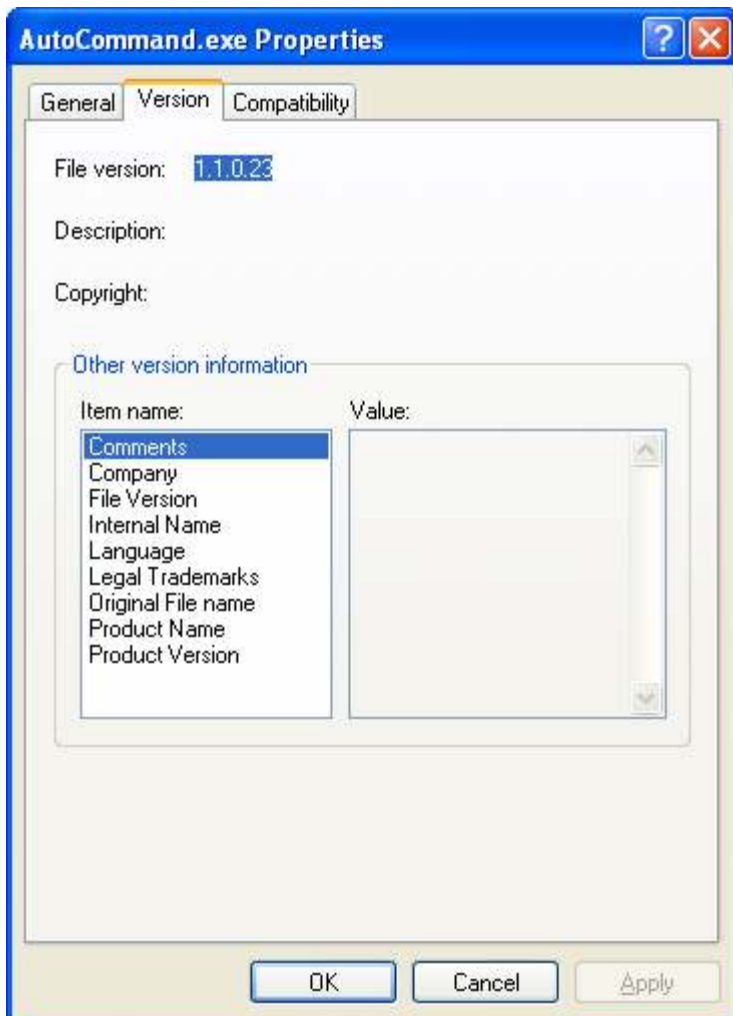
[IP4Desc]	Input 4 text Description
[IP1Units]	Input Units as programmed for Input 1
[IP2Units]	Input Units as programmed for Input 2
[IP3Units]	Input Units as programmed for Input 3
[IP4Units]	Input Units as programmed for Input 4
[IP1COUNT]	Number of Raw pulses on Input 1 in the Logging Interval
[IP2COUNT]	Number of Raw pulses on Input 2 in the Logging Interval
[IP3COUNT]	Number of Raw pulses on Input 3 in the Logging Interval
[IP4COUNT]	Number of Raw pulses on Input 4 in the Logging Interval

**NOTE:**

If the software is used with the LOOKOUT program for use with Outlook, the POP3 field (POP3=) should be left blank and the program will look for RAW data files in the RawPath Directory.

**SOFTWARE VERSION**

To check the Software Version of the program open Explorer and Right Click on the AutoCommand.exe and then select the Version Tab. This is seen below.



## **WARNING**

After the emails are retrieved all emails in the account will be deleted. This is to avoid duplication and the build up of emails. It is strongly recommended that emails are sent to two email addresses with one acting as a backup. Also the email account should be a dedicated address for emails from the Monita.

### **SYSTEM REQUIREMENTS**

Operating System	Windows 2000, XP
Processor	PIII 1.2Ghz and above
Memory	256MB (min)
Storage	50MB available hard disk space
Email	POP Mail Server Account
Email Address	Maximum 30 characters