

## Foxboro connectivity in five simple steps.

Foxboro connectivity can be achieved via a utility known as "Message Logger" which comes as part of the I/A Tools suite. It allows alarms and events to be sent to a USB port.

Using a USB to Serial converter you can send the alarms and events straight to ProcessVue.

The ProcessVue Data Collector when configured for a serial connection will collect all of the alarms and events sent to it from the Foxboro system.

The procedure below details the steps for setting ProcessVue to collect alarms and events from a Foxboro system via a serial connection:

- 1. Input Type select "RS232" from the dropdown menu
- 2. Select an available Comm port
- 3. Select either "Foxboro I/A Preset 1" or "Foxboro I/A Preset 2"
- 4. Click "Load"
- 5. Select the "Enabled" check box, ensuring a tick is present and click 'Apply.'

## Screenshot of the ProcessVue Collector configuration

	figuration: Collector (Demo), ID: 1, IP: 127.0.0.1 Connector Settings	- 0	×
Overview General	Connector Number 1 V Connector Description FOXBORO DCS	☑ En	nable
6	Input Type RS232 V	Foxboro I/A Preset 1 V Lo	bad
Connectors	RS 232		
	Port Settings Auto Response		
Archiver	Comm Port COM1 V	Ports Available	
	Baud Rate 9600 V		
Email	Parity None ~		
2	Data Bits 8 ~		
Users	Stop Bits 1 ~		
	Handshaking		
EventLog	Software V RTS Enable DTR Enable		
[r+h] ↓			-
	App	oly Cancel Close Hei	In

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Data received from Foxboro will depend on the formatting chosen in the Message Logger utility, as such there are no generic parsing rules that will fit all systems. Please contact MAC Solutions for assistance with your parsing configuration.

When collecting alarms from a Foxboro system, the alarms and events may be sent over multiple lines.

## Message Format:

<13>XXXYY:12TAH345 <13>01-09-08 00:33:27:3 XXY 335 TEMPERATURE STATE <10> RTN <10>

In these scenarios it may be necessary to enable the "Use Advanced Framing" option from the Archiver Configurator as per the screenshot below:

Imput       Imput <td< th=""><th><u>~</u> _</th><th>^</th><th>Input Processor</th><th>Source</th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	<u>~</u> _	^	Input Processor	Source						
Overview       Pre Processor       Parser       Date Time         Advanced Framing       Search And Replace			•	Collector ID	Collector (Demo)	~	Connec	tor ID	FOXBORO DCS	199
Overview       Pre Processor       Parser       Date Time         Advanced Framing       Search And Replace       0       NUL       Nuli       Nuli         Imput       Imput       Imput       Search And Replace       0       NUL       Nuli       Nuli         Imput       Imput       Imput       Imput       Search And Replace       0       NUL       Nuli       Nuli       1         Search And Replace       Imput       Search And Replace       0       NUL       Nuli       1										
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Image: Solution of the start of the st	eneral		Advanced Framing Search And Rep	lace		Ascii C	Codes			
Dutput       15       SI       Shift in         Dutput       16       DLE       Data link escape         Priority       Remove Blank Lines       Maximum Message Length       300       20       DC4       Device control 1         Priority       Remove Blank Lines       Maximum Message Length       300       21       NAK       Negative acknowledge         Use Advanced Framing       Raw Data File Logging       23       ETB       End of transmission block         24       CAN       Cancel       25       EIM       End of medium         25       EIM       End of medium       26       SUBS substute         26       SUB       Substute       26       SUB	Input		Foxboro     Provox (OPCON)     Chronos CR500			1 2 3 4 5 6 7 8 9 10 11 12 13	SOH STX EOT EOT ACK BEL BS TAB LF VT FF CR	Start Start End o End o End o Ackn Bell Back Horiz Linef Vertio Form Carria	of text of text of tansmission iny nowledge space contal Tab eed / Newline cal Tab feed age Return	
	Cutput Priority uplicate		Use Advanced Framing	Data File Logging		15 16 17 18 20 21 22 23 24 25 26 27	SI DLE DC1 DC2 DC3 DC4 NAK SYN ETB CAN EM SUB ESC	Shift Data Devic Devic Devic Nega Sync End ( Canc End ( Subs Esca	In link escape ce control 1 ce control 2 ce control 3 ce control 4 dive acknowledge thronous idle of transmission block tel of medium itute tipe	

The advanced framing when set to the Foxboro option, combines the two lines into one cohesive alarm string, making it easer to read in ProcessVue.

Please contact our technical department (support@mac-solutions.co.uk) for further details.



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