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How to use the SquirrelView software with the SQ2010/SQ2020/SQ2040 Data Loggers.

SquirrelView Help	Page 2
Connecting Your Squirrel Data Logger	Page 2
Logger Set-up	Page 3
Download Data	Page 8
Export Data	Page 11
Downloading Alarm Data	Page 15
Setting a Start and Stop Logging Action	Page 18
Setting an Alarm Action	Page 25
Sample Alarm Circuit	Page 31
Meter Mode	Page 32
Online Metering Direct to Excel	Page 37
Engineering Units	Page 39
4 to 20mA Connections	Page 42
Sensor Power Supply	Page 46
Setting up a Inbuilt Ethernet Connection	Page 47

Reference No: 03/11 V3.0



Squirrelview Help

Note: There is an extensive Help file within Squirrelview for information on using the software and logger.

SquirrelView Assistant (Distributors Copy)	×
Grant	SquirrelView Assistant
DATA LOGGING	USB - Squirrel 20XX Logger
Squirrel Analysis Tools Logger Selection	Help
Logger Setup Download Data Analysis Me Previous Files Used: (Double Click To Open) Setup File (*.5*)	 Help Content About SquirrelView Documentation Grant Instruments
\\homer\userdata\$\7149\my documents\setfiles\1106d \\homer\userdata\$\7149\my documents\setfiles\cal roor \\homer\userdata\$\7149\my documents\setfiles\nhs scc c:\program files\squirrelview\setfiles\new folder\despate \\homer\userdata\$\7149\my documents\setfiles\np barr \\homer\userdata\$\7149\my documents\setfiles\novarti \\homer\userdata\$\7149\my documents\setfiles\novarti \\homer\userdata\$\7149\my documents\setfiles\novarti \\homer\userdata\$\7149\my documents\setfiles\novarti Browse Remove Clear	m.s20 otland\nhs blood.s20 ch temp.s20 rus\barrus.s20 s\wgbt.s20

Connecting Your Squirrel Data Logger

First you need to select the correct logger model

					×
			SquirrelV	lew As	sistant
				USB - Squin	rel 20XX Logger
5	Logger Selection	Help			
	My Loggers	•			Logger Type
	2040 Series	•	2F16		4F16
ta	2020 Series	•	4F16	unication izard	4110
uble	2010 Series	•	Auto Detect		
	1600 Series	•			
3_2\ 3_2\	1000 Series	•	start.s20	~~~~~~	
3_21	800 Series	•			
	600 Series	•			
	400 Series	•			
	1200 Series	•			

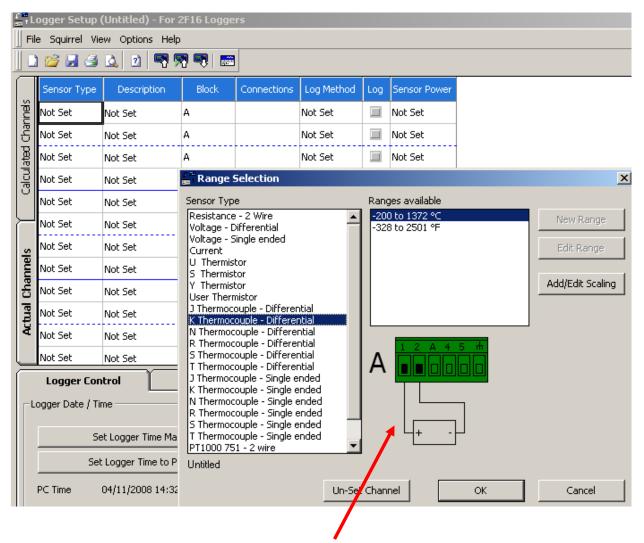


Logger Set-up

To start setting up the channels of the data logger click on the Logger Setup button.



Choose your sensor input from the selection range.



Connect the sensor as shown in the diagram.





- Squirrels loggers use the "Screw Terminal", (ST) 5.0 mm pitch plug and header connector system.
- Sensors are connected to screw terminal plug-in terminal blocks. Blocks of 3, 4 or 6 with cable strain relief

You will need to give the sensor input a description..

Channel Description	
Please enter a description for this channel	ОК
Temperature 1	

Select logging method and interval required (channels can be at different speeds).

1 1	Logger Setup (Untitled) - For 2F16 Lo	ggers						
∐ F	ile Squirrel View Options Help							
] [) 😂 🛃 🍮 🛕 🛛 🔜 🖓 🤜							
	Sensor Type		Description	Block	Connections		Log Method	
	K Thermocouple - Differential : -200 to 13	1372 'C Temperature1 A 1(+ve) to 2(-ve) Sample Interval: A (00:00:01) Logging In						
	Not Set		ging Method			_	×	
$\left[\right]$	Not Set	_	ging Method — Interval			C Maximum	C Minimum	
1 Sec	Not Set		adings are stored e	very logging			n every sample interval (or minimum) of these are	
Channels	Not Set					stored every loggi		
	Not Set	0	Average			🔿 Sum		
Calculated	Not Set		adings are taken ev d the average of th				n every sample interval, um is stored every logging	
ľ	Not Set	logging interval.						
≻	Not Set	C Sample only						
6	Not Set	Rea	ading are not logge	:d				
and	Not Set	San	nples					
Channels	Not Set			etermines ho	w often the readi	ngs are taken and I	to check for alarms and	
Actual	Not Set	-	igers.			-		
Įä	Not Set		Sample Interval	Sample Interv	/al A: 00:00:01	•	Edit Sample Intervals	
L	<u></u>					gs are stored in the	logger. The logging	
\square	Logger Control Actions 8	Inte	erval is worked out		ting.			
Г	Actions:		Sample Count 1					
	Actions		ging Interval —					
		Th	e logging interval c	letermines ho	ow often readings	are stored in the l	ogger:	
			Logging Interval =	= 00:00:0:	L			
			-	= Sample I	nterval × Sampl	e Count		
						(OK Cancel	
	Equation Space Used 0 bytes -		сциалоп эрасе с	ent izo byt	55			



To alter the sample intervals select the Edit Sample Intervals button

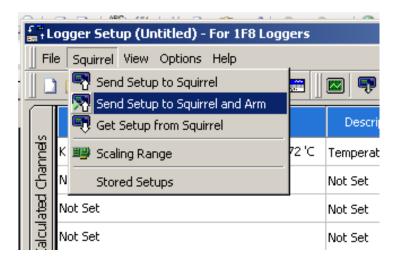
Edit Sample Intervals

🍪 Sample Inter	vals				×
Sample Interval	s				
Interval A	000 days 00:00:01 💌	OR	N/A	•	Reading Per Second
Interval B	000 days 00:00:01 🛋	OR	N/A	•	Reading Per Second
Interval C	000 days 00:00:01 💌	OR	N/A	-	Reading Per Second
Interval D	000 days 00:00:01 🛋	OR	N/A	•	Reading Per Second

There is an option to run at sub second intervals.

Note: Only 10 readings	I OR	N/A 💌	Reading Per Second
per Second on the	I OR	2 5	Reading Per Second
SQ2010 Loggers	리 OR	10 20 100	Reading Per Second
	-		

To send the setup to the logger and start logging go to Squirrel and Send Setup to Squirrel and Arm.





The Setup can be saved on your PC by:

-					-		 ~ ·
£ ≩Lo	gger Seti	up (Ur	ntitled) -	For 1F8 L	oggers		
	Squirrel						
	New						
7 😂	Open						
	Save						
	Save As						(+v
i t 🗈	Grant File	Conve	erter				

And click Stored Setups to store in the logger:





The logger can hold up to six different setups.

E Stored S	etups	×						
Logger Setup (Engine Temperatue)								
Setup 9	Setup Stores							
	Store 1 (Environmental Data)							
	Store 2 (profile test)							
	Store 3 (Empty)							
	Store 4 (Empty)							
	Store 5 (Empty)							
	Store 6 (Empty)							
Drag and drop to and from current setup to load Close								

Even more setups can be stored on removable MMC card.

Return To Index



Download Data

To start the download of data click Download Data button



Select the required Data file

👎 Download			×
Squirrel View			
Logger Data Files	Logger Data File Informa	tion	
	👜 Data File	04122108	
22090626 26151428 04122108	Job Description	Temperature	
	Arm Time	04/11/2004 12:21:08	
	🛃 Disarm Time	04/11/2004 16:09:42	
	🛃 File Size	215.5 KB	
	Downloaded	No	
	1		
Action After Download Graph Data	Download Selecte	d File(s) Advanced	

Select the Action after Download

👎 Download		
Squirrel View		
Logger Data Files	₽ 3 04122108	Logger Da Data Data Dob D Arm T Disarr Disarr Down
Action After Download	Graph Data 💌	Do
	No Action Export Data	
	Graph Data	

(Note this action can be set as default in Tools / Download Settings).

Select the *Download Selected File(s)*

⊒	Download Selected File(s)



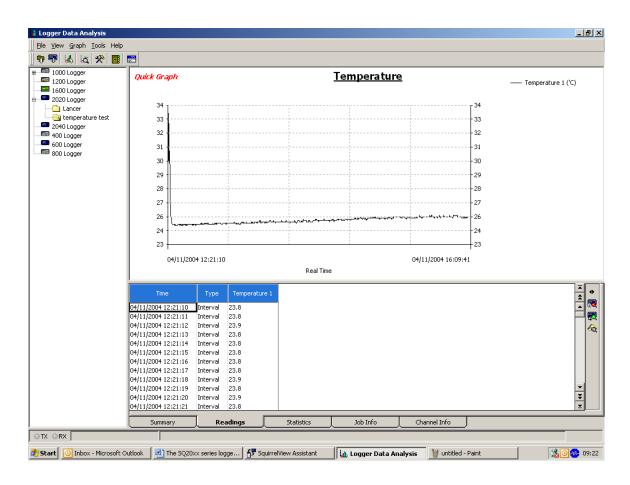
Give the File a name and Save.

Download File Na	ime	<u>?</u> ×
Save in:	🔁 DatFiles 💽 🔶 🛗 📰 🗸	
My Recent Documents Desktop My Documents My Computer (GDT100)	⁹ 2x100Hz.D20 ⁹ 29104455.D20 ⁹ 2x100Hzfull.D20 ⁹ JM.D20 ⁹ 100Hz.D20 ⁹ Vitrex240304.D20 ⁹ 06150738.D20 ⁹ Vitrex240304.D20 ⁹ 06150908.D20 ⁹ 09122207.D20 ⁹ 09122207.D20 ⁹ 09141559.D20 ⁹ 09155010.D20 ⁹ 09155010.D20 ⁹ 09155010.D20 ⁹ 17081722.D20 ⁹ 17085131.D20 ⁹ 17161536.D20 ⁹ 20163840.D20 ⁹ 20164932.D20	
My Network Places	File name: Temperature Save as type: DP351 Data Files (*.D20)	<u>S</u> ave Cancel
	Save as type: DP351 Data Files (*.D20)	Cancel

👎 Download	×
Squirrel View	
Logger Data Files	Logger Data File Information
	Data File 04122108
Grant	Please Wait Stop 2:21:08
DATA LOGGING	Downloading Data File Data Block Count 67 6:09:42
	Downloaded No
Action After Download Graph Data	Download Selected File(s) Advanced

Analysis Job Description		
Select an Analysis description to use for this Job		
temperature test		
	ОК	Cancel





Return To Index



Export Data

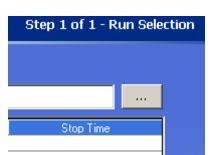
To export you data into excel

📲 🖁 Squirrel¥	'iew Assistant (Distributors Copy)			×
Gra	A let b. see	Squirrel	/iew As	ssistant
DATA LO	GGING		USB - Squin	rel 20XX Logger
Squirrel	Analysis Tools Logger Selection	Help		
,r 🖬	플' Full Data Analysis 國 Meter Mode		₹ <u>_</u>	Logger Type
Logger Setup	🐺 Export Data File 🔹 🕨	CSV File Export	tion	1F8
Previous	Export File Viewer	Export Directly to Excel		
(\homer\us \\homer\us c:\program \\homer\us \\homer\us	serdata\$\7149\my documents\setfiles\1106c serdata\$\7149\my documents\setfiles\cal ro serdata\$\7149\my documents\setfiles\nhs so n files\squirrelview\setfiles\new folder\despa serdata\$\7149\my documents\setfiles\ep ba serdata\$\7149\my documents\setfiles\novar	om.s20 :otland\nhs blood.s20 tch temp.s20 rrus\barrus.s20 tis\wgbt.s20		

📅 Export Wizard			×
🚹 Export Wizard			
		Step 1 of 1 - Run Sele	ection
Select data file to Export			
Job Description	Start Time	Stop Time	
		Ne	xt 🗾



Browse for File



Select 2020 Data	file					<u>? ×</u>
Look jn:	🗀 DatFiles		•	+ 🗈	💣 🎹-	
My Recent Documents Desktop My Documents My Documents My Computer (GDT100)	 2×100Hz.D20 2×100Hz.D20 100Hz.D20 06150738.D20 09122207.D20 09122207.D20 09122207A.D20 09155010.D20 09155010A.D20 17081722.D20 17085131.D20 17161536.D20 20163840.D20 20164932.D20 	For Temperature, D20				
My Network	, File <u>n</u> ame:	Temperature.D20			•	<u>O</u> pen
Places	Files of <u>type</u> :	2020 data files (*.D20)			-	Cancel

Choose the particular data file you wish to export and click.





Export Wizard			×
		Step 1 of 1 - Run Sele	ction
Select data file to Export C:\Program Files\SquirrelView20	l\DatFiles\Temperature.D20		
Job Description Temperature	Start Time 04/11/2004 12:21:08	Stop Time 04/11/2004 16:09:42	
		Ne	xt 🔁

Follow through the steps, and click the *Next* and *OK* buttons as required.







The following spreadsheet will be displayed.

A B C D E F B I J K L A B C D E F G H I J K L C A B C D E F G H I J K L 2 Logger Details: 2 C D E F G H I J K L 2 Logger Details: 2 C D E F G H I J K L 4 Output: Firmware 2 C D I I J K L 6 Dobetails 0 Logger ID Logger ID I <t< th=""><th>× 5</th><th>quirrel¥iew Export - Book1</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>_ 8 ×</th></t<>	× 5	quirrel¥iew Export - Book1												_ 8 ×
A1 B C D E F G H I J K L 1 Logger Details:	: B	<u>File E</u> dit <u>V</u> iew Insert Format	<u>T</u> ools <u>D</u> ata <u>W</u> in	dow <u>H</u> elp							Тур	e a question	for help	- 8 ×
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3 Serial Number KS0345001 Image: Secience of the]											
4 Controller Firmware 2 2 4 4 5 Aquisition Firmware 2 4 4 6														
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8 Job Details		Logger ID	Logger ID											
9 Number of Analogue Channels 2 <														
10 Number of Digital Channels 0 0 0 11 Total Number of Channels Used 2 0 0 0 13 Arm Time 11/04/2004 12:21 0 0 0 0 14 Disarm Time 11/04/2004 12:21 0 0 0 0 15 Duration 03:48:34 0 0 0 0 15 Duration Temperature 0 0 0 0 0 16 Job Description Temperature 0 <td></td>														
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15 Duration 03:48:34 Image: Channel of the second s														
16 Job Description Temperature Image: Second														
17 Readings per Channel 13712			03:48:34											
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21 Description Temperature Ref. Junction 1 (°C) Image: Stand Product of Product of Stand Product of														
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28 04/11/2004 12:21:11 Interval 23.8														
29 04/11/2004 12:21:12 Interval 23.9 30 04/11/2004 12:21:13 Interval 23.8 31 04/11/2004 12:21:16 Interval 23.8 32 04/11/2004 12:21:16 Interval 23.8 33 04/11/2004 12:21:16 Interval 23.8 33 04/11/2004 12:21:16 Interval 23.8 34 04/11/2004 12:21:17 Interval 23.8 34 04/11/2014 12:21:17 Interval 23.8														
30 04/11/2004 12:21:13 Interval 23.8 31 04/11/2004 12:21:14 Interval 23.8 32 04/11/2004 12:21:16 Interval 23.8 33 04/11/2004 12:21:16 Interval 23.8 34 04/11/2004 12:21:16 Interval 23.8 4 4 → ▶I Temperature (Sheet2 / Sheet3 /) 4	28													
31 04/11/2004 12:21:14 Interval 23.8 32 04/11/2004 12:21:15 Interval 23.8 33 04/11/2004 12:21:16 Interval 23.8 34 04/11/2004 12:21:71 Interval 23.8 4 ↓ → N Temperature (Sheet2 / Sheet3 /) ↓														
32 04/11/2004 12:21:15 Interval 23.8 33 04/11/2004 12:21:16 23.8 34 04/11/2004 12:21:71 23.8 34 04/11/2004 12:21:72 23.8 34 04/11/2004 12:21:72 23.8 34 04/11/2014 12:21:72 23.8 34 04/11/2014 12:21:72 23.8	30													
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34 04/11/2004 12:21:17 Interval 23.8														
	.34	N4/11/2004 12:21:17	Interval	23.8										
			neet3 /											▶ [
	Read	dy											NUM	
🐉 Start 🔯 Inbox - Micro 🔯 The SQ20xx 🗗 Squirrel View 📅 Logger Setup 🔄 Main Menu 🛛 🖗 Intranet - Ho 🦉 untitled - Paint 📓 Squirrel View. 👫 Logger Setup	٠	itart 🔟 Inbox - Micro 🕎 The SC	Q20xx 🗗 📅 Squirre	IView	p Logger Setu	ip 📴 Mai	n Menu	🧉 Intran	et - Ho	谢 untitled - F	Paint 🛛 🕱 S	quirrel¥ie	. 80	10:08

Return To Index



Downloading Alarm data

To download the alarm data select the Download Data button.

f a Lo	🚛 Logger Setup (Temperature) - For 1F8 Loggers					
∐ File	e Squirrel View Options Help					
	Sensor Type	Desc <mark>. Download</mark>	i Data			
annels	K Thermocouple - Differential : -200 to 1372 'C	Temperature 1	А	1(+		
Chat	Not Set	Not Set	A			

Select the required Data File.

👎 Download	×
Squirrel View	
Logger Data Files	Logger Data File Information
22090626 26151428 04122108 05150941 08035403	Data File 08085403 Job Description Temperature Arm Time 08/11/2004 08:54:03 Disarm Time Still Logging File Size 8.5 KB Downloaded No
Action After Download Graph Data	Download Selected File(s) Advanced

Click on the Advanced button.

a ivo	\`
d Selected File(s)	Advanced
8	



🖓 Download	×
Squirrel View	
Logger Data Files	Logger Data File Information Data File 08085403 Dob Description Temperature Arm Time 08/11/2004 08:54:03 Disarm Time Still Logging File Size 13.0 KB Downloaded No
Action After Download Graph Data	Download Selected File(s) Advanced s on the time line, to the required position, then click Download.
Job (08085403)	Logging Events Alarm Events
Download Start Time 08/11/2004 08:54:03 Download Stop Tim	e 08/11/2004 09:06:38
Select the type of Event(s) to retrieve from the selected logger data file to p	lot on the timeline Start Retriving Event Data

Click on the Start Retrieving Event Data button.

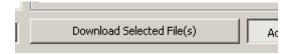




🗊 Download	X
Squirrel View	
Logger Data Files	Logger Data File Information
22090626 26151428 04122108 05150941 08085403	Data File 08085403 Discription Temperature Arm Time 08/11/2004 08:54:03 Disarm Time Still Logging File Size 13.0 KB Downloaded No
Action After Download Graph Data	Download Selected File(s) Advanced
Select the data to be downloaded by dragging the start and stop marker lines o	n the time line, to the required position, then click Download.
Job (08085403)	───● Logging Events ───● Alarm Events
•	
Download Start Time 08/11/2004 08:57:25 Download Stop Time	08/11/2004 08:59:29 -
Select the type of Event(s) to retrieve from the selected logger data file to plot All Events Alarm Events 	on the timeline Start Retriving Event Data

The two side vertical lines can be dragged to section that you want to download

Click the Download Selected File(s) button.



Return To Index



Setting a Start and Stop logging action

This example uses the event input to start and stop logging on an action.

In Setup Screen Click on the Actions & Triggers tab

🚰 Logger Setup (Temperature) - For 2F8 Loggers								_O×	
	File Squirrel View Options Help								
	Description	Block	Connection		Log Method				
Calculated Channels	Temperature 1	A	1(+ve) to 5(-ve)	Sample Interval: A (00:00:01) Logging Interval: (00:00:0	1) Mode: Interval	M	Not Used	
S	Not Set	A		Not Set				Not Set	
lated	Not Set	A		Not Set				Not Set	
alcu	Not Set	A		Not Set				Not Set	
	Not Set	В		Not Set				Not Set	
Ч	Not Set	В		Not Set				Not Set	
s	Not Set	в		Not Set				Not Set	
Actual Channels	Not Set	В		Not Set				Not Set	
Ğ	Not Set	c		Not Set				Not Set	
tual	Not Set	с		Not Set				Not Set	
¥	Not Set	с		Not Set				Not Set	-
	•								
	Logger Control	Act	ions & Triggers	Configuration	Digital/State	Alarms			
	ctions:								
	Actions							Add Acti	n
								Edit Acti	on
	Delete Action								
	Edit Triggers								erc
	quation Space Use	d Obutor	Equation	n Space Left 128 bytes				Lait mgg	
	· ·	a obytes	Equation	ropace cert i i zo bytes					
OT: OR	x l								

Click on the Add Action button.

Add Action	



To add the start action select the Start Logging action

Add action		×
Choose action to add	Description	
Stop Logging Start Logging Turn ON Alarm A Turn ON Alarm B Turn ON Alarm C Turn ON Alarm D Turn OFF Alarm A	Starts logging when the condition is met. (Applies to all channels)	
Turn OFF Alarm B Turn OFF Alarm C Turn OFF Alarm D Stop Logging on Interval C Stop Logging on Interval D Start Logging on Interval C Start Logging on Interval D		
	OK Cancel	

Click on the OK button.

Select the State tab



And click on the Add button.



Select input 1

A Add State Trigger	×
Select Trigger to Add	Add
Input 1	Cancel
Trigger Settings	
Activate trigger on Positive State	-
Trigger must not switch again for 1 sample counts to be	come TRUE.

Then click on the Add button.



To add the action, click on the Add Selected Trigger button.



Equation [Input 1] Add Select	ed Trigger	AND XOR	OR NOT Del		
Channel State triggers: Input 1		Time ggered on the Positive Si be in the required state		ounts	
	Add Edit Delete			ок	Cancel

Click on the OK button.



	ित्तु Logger Setup (Temperature) - For 1F8 Loggers						
	le Squirrel View Options Help) 📂 🚽 🥞 🔔 🛛 🗬 🖓 🔫 📰 📗		•				
		, 12	Block	Connections		Log Method	
8	Sensor Type	Description			- I.T. I.T.		
l Channels	K Thermocouple - Differential : -200 to 1372 'C	Temperature 1	A	1(+ve) to 2(-ve)		(00:00:01) Logging Interval: (00:00:0	
망	Not Set	Not Set	A		Not Set		
late	Not Set	Not Set	A		Not Set		
Calculated	Not Set	Not Set	A		Not Set		
ľ	Not Set	Not Set	В		Not Set		
\succ	Not Set	Not Set	В		Not Set		
<u>~</u>	Not Set	Not Set	в		Not Set		
Actual Channels	Not Set	Not Set	В		Not Set		
Cha	Not Set	Not Set	с		Not Set		
la	Not Set	Not Set	с	Not Set		t Set	
¥	Not Set	Not Set	с		Not Set	-	
	4 [İ		İ			
	Logger Control Actions & Trigge	ers C	onfiguration		igital/State	Alarms	
	Actions:	,		I		•	
	수 Actions 효·魏 Turn ON Alarm A 효·魏 Start Logging					Add Action	
	🖻 🔣 Start Logging					Edit Action	
						Delete Action	
				Edit Trigger			
E	Equation Space Used 12 bytes Equation Space Left 116 bytes						
٢	Communication						

Now you need to add the stop logging action.

Click on the Add Action button.

Add Action



Select the Stop Logging action.

Add action		×
Choose action to add	Description	
Stop Logging Start Logging Turn ON Alarm A Turn ON Alarm B Turn ON Alarm C Turn OFF Alarm D Turn OFF Alarm A Turn OFF Alarm B Turn OFF Alarm C Turn OFF Alarm D Stop Logging on Interval C Stop Logging on Interval D Start Logging on Interval C Start Logging on Interval D	Stops logging when the condition is met. (Applies to all channels)	
	OK Cancel	

Click on the OK button.

🚔 Edit action: Stop Lo	<u>jging</u>			×
Equation Add Selec	red Trigger	AND OR XOR NOT	-1	
Channel	State	Time		
Channel triggers: Temperature 1 A	Trigger Details: High trigger: Trigger when Temperature Reset trigger when Tempe Add Edit			
	Delete			
			ОК	Cancel

Select the State tab.





And click on the *NOT* button.



Edit action: Stop Logo	jing				×
NOT Add Selecte	d Trigger	AND XOR	OR NOT Del		
Channel	State	Time			
State triggers: Input 1		igered on the Positive St be in the required state		unts	
	Add				
	Edit				
	Delete				
			[ок	Cancel

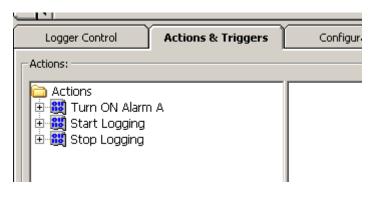
Click on the Add Selected Trigger button.





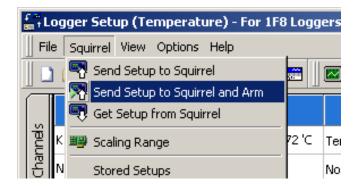
🗜 🖥 Edit action: Stop Logo	jing				×
Equation NOT [Input 1] Add Selecter	d Trigger	AND XOR	OR NOT Del		
Channel	State	Time			
State triggers:		gered on the Positive S be in the required state		ounts	
	Delete				
				ок	Cancel

The logger will stop logging when the event is not activated Click on the *OK* button.



Save the Set-up

Then send the setup the logger and start logging.



Return To Index Page 24 of 48



Setting an Alarm Action

In Logger Setup Screen Get Setup from Squirrel

🚰 Logger Setup (Untitled) - For 1F8 Logg	jers
Eile Squirrel View Options Help	
Send Setup to Squirrel	
🗧 🔍 Get Setup from Squirrel	Connection Log M
Scaling Range	Not Se
	Not Se
N S Logger Control	Not Se
Burnet a	N-L C-

Click on Actions & Triggers tab

	Sensor	Туре	Description	Block	Connection		Lo	g Method
U	Thermistor : -50 to 150	o'c	Temp 1	A	1(+ve) to 5(-ve)	Sample Interva	l: A (00:00:02) Logo	ging Interval: (00:00:
υ	Thermistor : -50 to 150	D'C	Temp 2	A	2(+ve) to 5(-ve)	Sample Interva	l: A (00:00:02) Logo	ging Interval: (00:00:
U	Thermistor : -50 to 150	D'C	Temp 3	A	3(+ve) to 5(-ve)	Sample Interva	l: A (00:00:02) Logo	ging Interval: (00:00:
υ	Thermistor : -50 to 150	ס'כ	Temp 4	A	4(+ve) to 5(-ve)	Sample Interva	l: A (00:00:02) Logo	ging Interval: (00:00:
υ	Thermistor : -50 to 150	ס'כ	Temp 5	В	1(+ve) to 5(-ve)	Sample Interva	l: A (00:00:02) Logo	ging Interval: (00:00:
U	Thermistor : -50 to 150	D 'C	Temp 6	в	2(+ve) to 5(-ve)	Sample Interva	l: A (00:00:02) Logo	ging Interval: (00:00:
υ	U Thermistor : -50 to 150 'C		Temp 7	в	3(+ve) to 5(-ve)	Sample Interval: A (00:00:02) Logging Interval: (00:00		ging Interval: (00:00:
υ	U Thermistor : -50 to 150 'C		Temp 8	в	4(+ve) to 5(-ve)	Sample Interval: A (00:00:02) Logging Interval: (00:00		
υ	U Thermistor : -50 to 150 ′⊂		Temp 9	с	1(+ve) to 5(-ve)	Sample Interval: A (00:00:02) Logging Interval: (00:00:		
U	U Thermistor : -50 to 150 'C		Temp 10	С	2(+ve) to 5(-ve)	Sample Interval: A (00:00:02) Logging Interval: (00:00:		
No	ot Set		Not Set	с		Not Set		
•	<u> </u>		~					
Lo	ogger Control	Actions & Triggers	Configura	ation 🏻	Digital/State	Ì	Alarms	
Actio	ons:							
ò.	Actions							Add Action
								Edit Action
								Delete Action
								Edit Triggers



Click on the Add Action Button



Select an alarm to turn on and Click on the OK button

Add action	×
Choose action to add	Description
Stop Logging Start Logging Turn ON Alarm A Turn ON Alarm B Turn ON Alarm C Turn ON Alarm D Turn OFF Alarm A Turn OFF Alarm B Turn OFF Alarm C Turn OFF Alarm D Stop Logging on Interval C Stop Logging on Interval D Start Logging on Interval C Start Logging on Interval D	Causes the logger to go into the alarm state when the condition is met.
,	OK Cancel

Click on the Add button

🚰 Edit action: Turn ON Alarm A 🔀 🔀			
AND OR XOR NOT			
Channel State Time			
Channel triggers:			
Add			
Edit			
Delete			
OK Cancel			



Enter the drop down box

🚰 Add Channel Trigger		×
Select Trigger to Add		
		▼
Channel Info.	<u>A</u> dd	Cancel

Choose the trigger channel you want the alarm to apply too.

At Add Channel Trigger		×
Select Trigger to Add		
Temp 1 A Temp 1 B		<u> </u>
Temp 2 A Temp 2 B		
Temp 3 A		
Temp 3 B Temp 4 A		
Temp 4 B		<u> </u>
Channel Info.	Add	Cancel

Choose the Trigger Type and enter the values required for the alarm

🕂 Add Channel Trigger	x
Select Trigger to Add	
Temperature 1 A	•
Trigger A	_
Trigger type: High trigger	
Trigger becomes TRUE when Channel rises above 30 'C and FALSE when Channel falls below 29 'C	
Trigger must be above/below the specified threshold for 5 Sample Count(s) to become TRUE/FALSE.	
Channel Info. Add Cancel	



Click on the Add button

Add

Highlight the Channel trigger to be added to the equation

🚔 Edit action: Turn ON A	larm A				×
Equation					
AND OR XOR NOT Add Selected Trigger >					
Channel	State	Time			
Channel State Time Channel triggers: Trigger Details: High trigger: Trigger when Temperature 1 is >= 30 'C for 00:00:01 Reset trigger when Temperature 1 is <= 29 'C for 00:00:01 Add Edit Delete Delete					
				ок	Cancel

Click on the Add Selected Trigger button

Add <u>S</u> elected Trigger	1
	1



🗜 🖥 Edit action: Turn 0	IN Alarm A				×
Equation [Temperature 1 A] AND OR XOR NOT Add Selected Trigger < Del					
Channel	State	Time	1		
Channel State Time Channel triggers: Trigger Details: Temperature 1 A High trigger: Trigger when Temperature 1 is >= 30 'C for 00:00:01 Reset trigger when Temperature 1 is <= 29 'C for 00:00:01					
				ок	Cancel

Click on the OK button



Action will appear as below in the Logger Setup window.

1		
	Logger Control Actions & Triggers	Confi
	Actions:	
	Constant Antions In the second Alarm A	

Tip for the setting of alarms:

The alarms operate at the logging interval, so if you have a slow logging interval but want to see the alarm as it happens then set a Sample Count Value so the alarm is sampled more often.



The example below shows the logger sampling every second for the alarms but only logging a reading every hour.

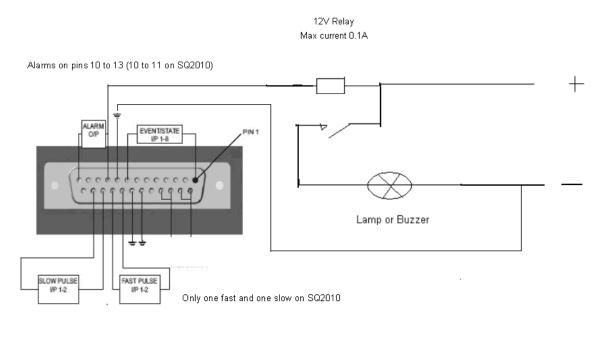
Logging Method				X		
CLogging Method -						
Interval		🔿 Maximum	🔿 Minimum			
Readings are stored	d every logging interval.		n every sample interval or minimum) of these are ng interval.			
C Average	C Average					
Readings are taken every sample interval and the average of these are stored every logging interval.			n every sample interval, im is stored every logging			
Sample only Reading are not log	ged					
Samples	Samples					
The sample interval triggers.	The sample interval determines how often the readings are taken and to check for alarms and triggers.					
Sample Interval	Sample Interval Sample Interval A: 00:00:01					
	The sample count is used to determine when readings are stored in the logger. The logging interval is worked out from this setting.					
Sample Count	Sample Count 3600					
Logging Interval –						
The logging interva	I determines how often reading	gs are stored in the lo	ogger:			
Logging Interva	al = 01:00:00					
	= Sample Interval × Samp	ole Count				
			OK Cancel			

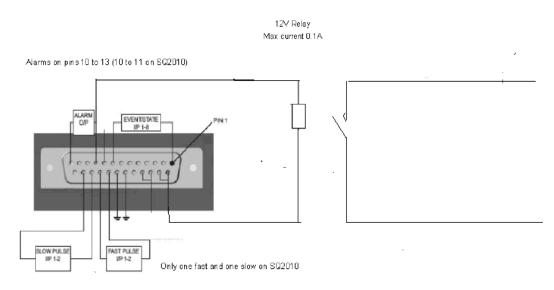
Return To Index



Sample Alarm Circuit

Below are a couple of example alarm circuits





RS relay 211-1269

Return To Index



Meter Mode

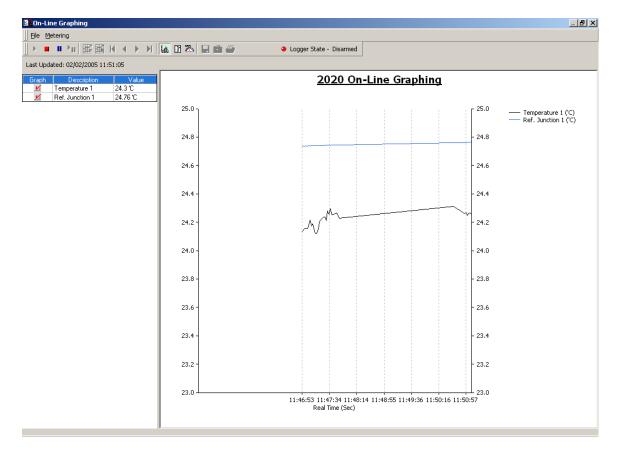
Once the channels have been set and the set file sent to the logger, click on the *Meter Mode* button on the front screen of the SquirrelView Assistant.



The Basic SquirrelView will display readings from the logger at approximately 1 Hz from all the channels that have been setup.

Metered values		
Description	Value	Stop
Temperature 1	22.1 'C	
Ref. Junction 1	22.11 'C	

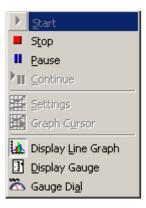
To see Online graphing, SquirrelView Plus software is required



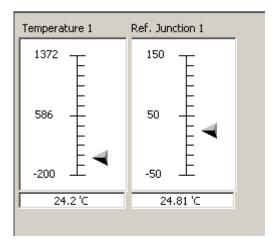
The graph is displayed with automatic scaling.

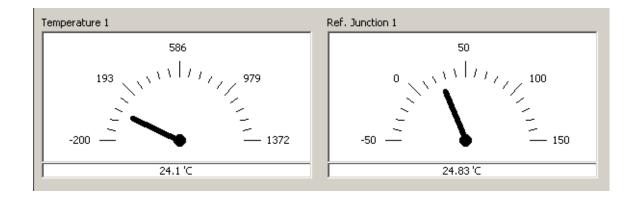


Right click on the graph to change display type



As well as a line graph a display gauge and a Dial gauge can be chosen.







Pause to change settings

▶ <u>S</u> tart	▶tart
E Stop	Stop
II Pause	II <u>P</u> ause
▶ III ⊆ontinue	Continue
Settings	Settings
Graph Cyrsor	Graph C <u>u</u> rsor
🚹 Display Line Graph	🚛 Display Line Graph
🗄 Display Gauge	📳 Display Gauge
🏝 Gauge Di <u>a</u> l	🖾 Gauge Di <u>a</u> l

Settings				
Threshold Display	Settings	X-Axis	Y-Axis	Meters
Thresholds				1
	Upper	Lower		
Threshold Value	0	0		Enable
On and Above Colour				
		ОК		Cancel

Settings			
Threshold Display	Settings X-Axis	Y-Axis	Meters
View Graph Alarms Graph Event Data Display Legend	Graph Graph Title Use Logger Text 2020 On-Line Graphing Display Metered Values		
Plot with Points	Background Colo	ur 	Cancel



Threshold Display Settings X-Axis Y-Axis Meters Type Grid Image: Construction of the second	Settings		
Image: Constraint of the second se			Y-Axis Meters
O Scatter Graph Image: Scatter Graph O Bar Graph O Y-Axis Note: Bar Graph will only show O Both	Type	Grid	
C Scatter Graph (• X-Axis Colour C Bar Graph C Y-Axis Colour Note: Bar Graph will only show C Both	💿 Line Graph	C None	
Note: Bar Graph will only show O Both	C Scatter Graph	X-Axis	Dot
Hote: Dar Graph will only show	🔘 Bar Graph	C Y-Axis	Colour
		C Both	· · · · · · · · · · · · · · · · · · ·
OK Cancel		0	K Cancel

Settings
Threshold Display Settings X-Axis Y-Axis Meters X-Axis Title Real Time (Sec) Interval 50 ÷ Minor divisions between major divisions 5 ÷ Interval 50 ÷ (e.g. 5 = [· · · · · · · · · ·]) (Secs) 50 ÷
OK Cancel

Settings			
Threshold Display S	Settings X-A	Axis Y-Axis	Meters
Y-Axis	Series		
Metering Readings	Channel	Temperature 1	-
C Manual	Line Width	1 Pixels	•
Maximum 0	Line Style	Solid	•
Minimum 0	Line Colour		
		ок	Cancel



Settings				
Threshold Dis	play Settings	X-Axis	Y-Axis	Meters
Meters Scaling -				
Channel	Temperature 1	- I		
Upper Limit	1372			
Lower Limit	-200			
		ОК		Cancel

Return To Index



Online Metering Direct to Excel

🖥 SquirrelView Assistant (Distributors Copy)						
Gra		SquirrelView As				
DATA LO	GGING	USB - Squirre				
Squirrel	Analysis Tools Logger Selection	Help				
j:: 🖬	🖕 ' Full Data Analysis					
E ¹	🔤 Meter Mode	Online Meter				
Logger Setup	🛐 Export Data File 🔹 🕨	Online Graphing				
Browieue	📷 Export File Viewer	Online Metering Direct to Excel				
Frevious	Hies osea, (boable click to open)					

This metering function collects data values from selected setup channels in the logger, and places them into an Excel spreadsheet.

When this feature is activated the SquirrelView Assistant window will disappear and the below screen displayed.

🖬 On-Line Meter to Excel 🛛 🛛 🗵					
Channels					
	Thannel	Display			
Temperat	ture 1	M			
Ref. Juno	tion 1	1			
			Ţ		
Last Upda	te				
	Close	Start			

Select the required channels and click the *Start* button, If you need to change which channels are being metered you will have to restart the metering process.

An Excel application spreadsheet will then be automatically created, configured with the channels select metering to this spreadsheet.



🔀 SquirrelView Real-Time Meter - Sheet1										
:	<u>F</u> ile <u>E</u> dit	⊻iew	Insert	F <u>o</u> rmat	<u>T</u> oo	ols <u>D</u> at	a <u>W</u> in	ndow	<u>H</u> elp	
1	🗄 🗋 📂 🔙 📮 🚄 🔍 🖤 🖏 🐰 🔊 - I 🧶 Σ - ϟ↓ 📖 🤅									
	🔚 🔄 🖄 🖾 🍋 🎽 🌫 🏷 🏂 🔩 📭 💱 Reply with Changes El									
	A1	•	f _x	Elapsed [•]	Tim	e				
	A			В			С		D	
1	Elapsed Tir	ne	Temp	erature 1		Ref. Ju	nction	1		
2	00:00:04.0	56		2	4.5		2	4.69		
3	3 00:00:07.060			2	4.4		2	4.69		
4	00:00:10.0	44		2	4.4		2	4.69		
5	00:00:13.0	59		2	4.5		2	4.69		
6	00:00:16.0	43		2	4.5		2	4.69		
- 7 -	00:00:19.0	47		2	4.5			24.7		
8	00:00:22.0	51		2	4.5		2	4.69		
9	00:00:25.0	56		2	4.4			24.7		
10										

Note: It is requested not to edit or change any of the spreadsheets settings until metering has stopped and exited. Any modification to the spreadsheet whilst metering could lead to corruption of the data.

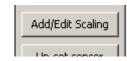


Engineering Units

To setup engineering units the following example shows a voltage input of 0 to 1 V which is equal to 0 to 100% \mbox{rh}

Select appropriate input and range in this case.

Click on the Add/Edit Scaling button.





Set display 1 as: 100 and 0 as: 0 Units as %rh Realistic number of decimal places

The logger will scale the whole range which is shown below

🕮 Scaling Range							
Convert range with the following settings							
Display: 1	as: 100						
Display: 0	as: 0						
Display Units of:	V as: <mark>% rh</mark>						
Decimal Places:	Decimal Places: 1						
Preview							
	Base Range	New Range					
Range Maximum:	1.2 V	120.0 % rh					
Range Minimum:	-0.6 V	-60.0 % rh					
	ОК	Cancel					

Click on the OK button.

Range Selection	×
Sensor type	Ranges available
Sensor type Resistance - 2 Wire Resistance - 3 Wire Resistance - 3 Wire Resistance - 4 Wire Voltage - Differential Voltage - Single ended Current U Thermistor S Thermistor J Thermocouple - Differential K Thermocouple - Differential R Thermocouple - Differential S Thermocouple - Differential T Thermocouple - Differential J Thermocouple - Differential J Thermocouple - Single ended K Thermocouple - Single ended R Thermocouple - Single ended R Thermocouple - Single ended	Ranges available -6 To 12 V -6 To 6 V -3 To 3 V -0.6 To 2.4 V -0.6 To 1.2 V -0.6 To 0.6 V -0.3 To 0.3 V -0.15 To 0.15 V -0.075 To 0.075 V -60 To 120 % rh (S.R.)
S Thermocouple - Single ended T Thermocouple - Single ended	

Select scaled range (SR) and click on the OK button.



Enter a description for the channel.

Channel Description						
Please enter a description for this channel	ОК					
Humidity						

Save the setup



Send the setup to logger and Arm if required

🚰 Logger Setup (Temperature) - For 1F8 Loggers						
File	Squirrel	View Options Help				
	📗 🕥 🖓 Send Setup to Squirrel 📰 🗌 📼					
Send Setup to Squirrel and Arm						
📃 🖳 Get Setup from Squirrel						
K ∰ Scaling Range 72 ℃						
Ŝ N	Stor	red Setups	No			



4 to 20 mA Connections

In logger Setup screen double click in Sensor Type column of input channel required (Block A is shown) but can be A, B, C or D input block. Select the range as below then click on the *OK* button.

-	Range Selection			×
	Sensor type		Ranges available	
	Resistance - 2 Wire	•	-30 To 30 mA	ОК
	Resistance - 3 Wire Resistance - 4 Wire	Т	4 To 20 mA	
	Voltage - Differential	Т		Cancel
	Voltage - Single ended	T		
	Current	L		Add/Edit Scaling
	U Thermistor S Thermistor	L		
	Y Thermistor	L		Un-set sensor
	J Thermocouple - Differential	L		
	K Thermocouple - Differential	L	A	
	N Thermocouple - Differential R Thermocouple - Differential	L	A 1 2 A 4 5 m	
	S Thermocouple - Differential	L		
	T Thermocouple - Differential			
	J Thermocouple - Single ended K Thermocouple - Single ended			
	N Thermocouple - Single ended			
	R Thermocouple - Single ended		10 Ohms Shr	untresistor
	S Thermocouple - Single ended		L + - P needed	
	T Thermocouple - Single ended			

If engineering units are required click on Add/Edit Scaling button The example below shows input scaled to log as 0 to 10 bar pressure

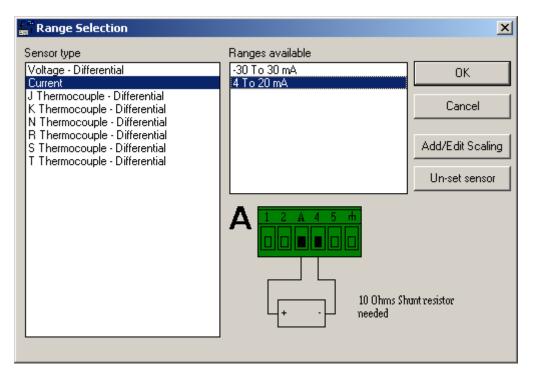
🕮 Scaling Range		×				
Enter the new values for the base range maximum, minimum, units and number of decimal places.						
Display: 20	as: 10					
Display: 4	as: 0					
Display Units of: mA as: bar						
Decimal Places:	2					
Range Preview						
	Base Range	New Range				
Range Maximum:	20 mA	10.00 bar				
Range Minimum: 4 mA 0.00 bar						
	OK	Cancel				



Range Selection		×
Sensor type	Ranges available	
Sensor type Resistance - 2 Wire Resistance - 3 Wire Resistance - 4 Wire Voltage - Differential Voltage - Single ended Current U Thermistor S Thermistor J Thermocouple - Differential K Thermocouple - Differential R Thermocouple - Differential S Thermocouple - Differential S Thermocouple - Differential J Thermocouple - Differential J Thermocouple - Differential J Thermocouple - Differential J Thermocouple - Single ended K Thermocouple - Single ended K Thermocouple - Single ended S Thermocouple - Single ended S Thermocouple - Single ended K Thermocouple - Single ended	Ranges available -30 To 30 mA 4 To 20 mA 0 To 10 bar (S.R.) Cancel Add/Edit Sca Un-set sens Un-set sens 10 0hms Shunt resistor meeded	-

For next sensor (Up to two sensors can be connected to each block) Double click in next valid channel sensor type column select range as below a

Double click in next valid channel sensor type column select range as below add scaling if required then click on the *OK* button.



If more sensors are required, repeat above procedure with next channel on the next input block

Save and send set up to logger



Connect sensor wires as follows

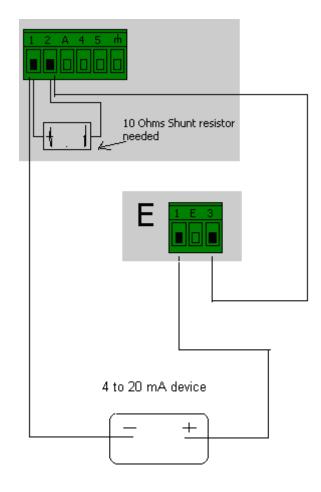
Check colour code for sensors selected to ensure that probes are connected to correct polarity

Connect probes with precision 10 Ohm resistor (pack of four grant part CS202 supplied with logger) across terminals as shown below

	Power Supply Max 25 ∨ dc
10 Ohms Shunt resistor	
4 to 20 mA device	
- +	

Sensors can be powered via the SQ2020/SQ2040 data logger if required maximum supply voltage is 18Vdc (supply volts) & total maximum current is 100mA.







Sensor Power Supply

The choice of power is

A - External Supply (as supplied into the DC power plug, 100mA max)

B - 5V (regulated output from logger, 50mA max)

Each supply can be set to turn on either continuously whilst the logger is Armed or at the required duration before a sensor is sampled (Sensor warm up time)

Logger Control	Actions & Triggers	Configuration	Digital/:	
Logger Date / Time Set Logger Time Manually Set Logger Time to PC Time		Logger Identification		
PC Time 08/02/200	05 09:42:39	Job Description		
A (Supply) 00:00:00	Continuous B	(5V) 00:00 🔟 💌 🗖 🤇	Continuous	

To activate Sensor Power Supply double click on "Not Used" in Sensor Power column of the input channel and select the one power supply required

Connection	Log Method	Log	Sensor Power
1(+ve) to 2(-ve)	Sample Interval: A (00:00:01) Logging Interval: (00:00:01) Mode: Interval	M	Not Used

📅 Sensor Power	×
Sensor Power Supply	,
O Not Used	
Sensor Power Time A: 00:00:00 - (Supply)	
C Sensor Power Time B: 00:00:00 - (5V)	(+ -)
	OK Cancel



Setting up a Inbuilt Ethernet Connection

This is not available on the SQ2010 and the SQ2020 1F8 Data Loggers

For the SQ2020/SQ2040 to communicate using the Inbuilt Ethernet connection, the logger requires to be powered using an external power supply.

Refer to the Configuring the 20xx Inbuilt Ethernet Device manual which can be found on the Resource CD, In Squirrelview help under manuals or on the website at the following link: <u>Configuring Inbuilt Ethernet</u>

Once the SQ20xx Ethernet has been setup the IP address needs to be set in the Squirrelview software.

In the Squirrelview Assistant click on Communications Wizard

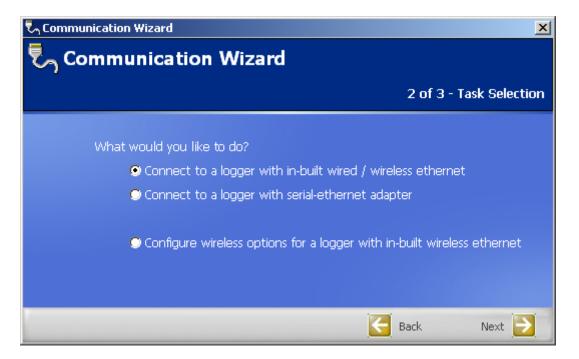


Click on the *Ethernet* communication type and then click the *Next* arrow





Then choose Connect to a logger with in-built wired/wireless Ethernet and click on the Next arrow



Then enter the IP address that has been entered into the SQ20xx Datalogger when the inbuilt Ethernet was configured in the *Ethernet Device IP Address* box. Click on the *Finish* arrow.

🆏 Communication Wizard	×
🏷 Communication Wizard	
	3 of 3 - IP address
Please identify the logger by its IP address	
IP address 192 . 168 . 10 . 36	
To discover nearby loggers, press Find Devices	
Find Devices	
Bac	k Finish 🔁

Squirrelview can now communicate with the logger via the Ethernet.