



# Data Acquisition

## What customers say about Livingston

“We use Livingston as it offers us a one-stop shop where we can take care of all our test equipment sourcing requirements.”

THOMAS HARVICK - PROCUREMENT MANAGER

“Livingston’s technical and application support staff are always able to help me with my queries.”

GERARD WHITE - CONTRACT ENGINEER

“I must have different instruments to meet the needs of different assignments. Livingston’s range means I can find exactly what I want and hire it straight away.”

TONGHI-HU - PROJECT MANAGER

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**Livingston**  
test equipment rental

## DATA LOGGERS

Dataloggers are used across all industries to record a wide range of variables, and as a result they come in many different forms with varying specifications. The key factors that will decide what is the most suitable datalogger for your application are the following:

1. Wide range of different dataloggers and Recorders
2. Sensors and thermocouples available on request
3. How long you wish to record the data for
4. What parameters you wish to record
5. The resolution of the measurements needed
6. Output method

Sometimes it will be necessary to compromise one or more of these parameters when budgets are considered. Memory / Storage is one of the key limiting factors, as the more frequently you sample and the longer you wish to record for will increase the amount of storage required. There may also be the practicality of handling the amount of data being produced.

The majority of dataloggers will measure voltage, and many will also support thermocouples. You can also get dataloggers that will measure resistance and PRTs, and also some that will monitor strain gauges. Some dataloggers come with a graphical display to give an immediate interpretation of the data recorded, whilst others will be a simple 'black box' where the data is downloaded. All of them will have some method for exporting the data, some

to their own proprietary software, and most will also export in a format that can be imported into a spreadsheet for further analysis.

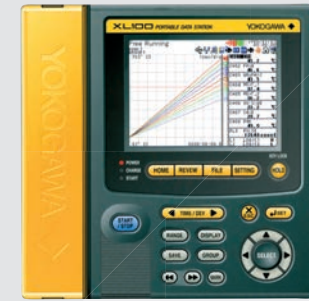
Our experienced engineers will be happy to discuss your application with you and recommend a suitable solution to meet your specific requirement.



### What engineers can expect from Livingston:

- › Access to latest cable testing technology
- › Optical & electrical cable test solutions
- › Single source for all required test items
- › Selection across a wide price range
- › Professional helpdesk
- › 24 hours delivery time

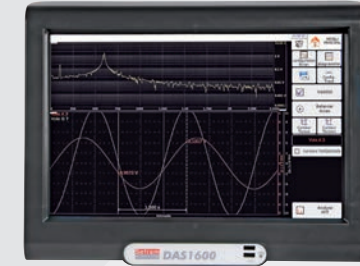
### YOKOGAWA XL124 Portable 16 Channel Data Logger



#### specifications

200ms Measurement Interval  
 16MB Internal Memory  
 Input(Range) DCV(100mV~50V, 1-5V f.s.), TC(K,E,J,T,L,U,N,W,R,S,B)  
 Communication Function □ LAN, USB, RS-232, RS-485

### SEFRAM DAS1600 18 Channel Paperless Recorder



#### specifications

DC Voltage, TRMS AC+DC, Frequency, Thermocouples, PT100  
 15,4" Panoramic TFT Touch screen · Internal hard disk : 500 Gb  
 Interfaces: USB, XGA, Ethernet

### FLUKE 2635A Hydra Databucket 21 Channel Datalogger



#### specifications

Measurement of DC & AC Voltage, Resistance, TC's and Frequency  
 DC 300 mV to 300 V, AC 20 mV to 300 Vrms  
 Resistance 300 Ω to 10 M Ω and Frequency 15 Hz to 1 MHz  
 Stores up to 900,000 readings to a 4 MB PCMCIA Memory Card

### YOKOGAWA DL850 ScopeCorder 16 Channel



#### specifications

High-speed (up to 100 MS/s)  
 High Resolution (up to 16-bit), Isolated (up to 1kV\*1)  
 Continuous hard disk recording at 100 kS/s simultaneously on 16 channels\*2  
 Different Trigger options available

### SEFRAM DAS600 6 channel portable paperless recorder



#### specifications

AC+DC RMS voltage, Frequency and TC's measurement  
 1 Mega sample/s sampling rate  
 80 GB internal hard disk  
 Interfaces : USB, Ethernet, XGA

### FLUKE 1735 4 Channel Power Logger



#### specifications

Measure maximum power demand over user defined period  
 Measure total harmonic distortion  
 Graphic Colour Display  
 Supplied with Power Log Software

## Wide range of Test Instruments now available

By using Livingston as supplier for your test and measurement instrument you will have access to a wide range of different instrument. The rental inventory of Livingston contains over 5.000 different instruments over a wide range of technologies. From basic temperature measurement

instrument to very sophisticated high frequency spectrum analysers. Livingston supply all instrument with a complete package of accessories, a manual and a valid calibration certificate. Ready to use.



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- › No capital expenditure or investment necessary
- › Cost effective
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- › Try before you buy
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- › Rental Replacements
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