

## PROCESS CONTROL SYSTEM

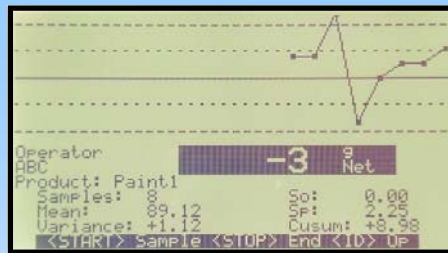
# GSE 60-SERIES APPLICATIONS

Item sampling with statistical process control

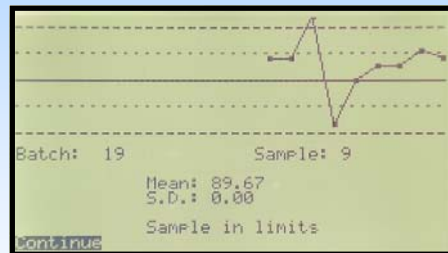
Trend graph of sample mean

Running batch statistics displayed on screen

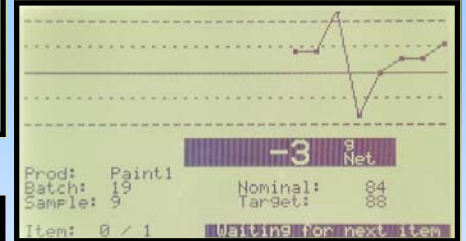
Optional printer output



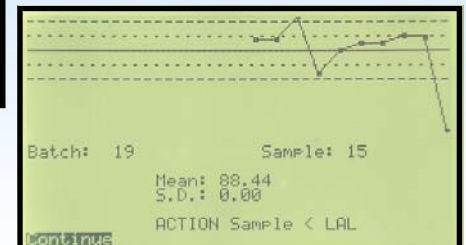
Running batch statistics



Results with sample in limits



Item sampling



Results with sample outside limits

## FEATURES

### PRODUCT SELECTION

- Products and associated data are stored in memory. Target weight plus upper and lower warning and action limits can be defined for each product.
- Operators can select products by ID number or by picking from a list on screen.
- Batch number and line number information can also be input by the operator to aid traceability.

### SAMPLING

- The system is configurable to specify the number of items per sample and will prompt the operator accordingly.
- As each item is weighed it is automatically detected and recorded in the memory, prompting the operator for the next item.
- At the end of each sample the mean and standard deviation are calculated and the operator prompted if they exceed pre-defined limits. The trend graph is then updated to show the results of the last twenty samples.

### DATA OUTPUT

- Sample and batch data can be output to a printer and / or PC.
- Sample data can include individual item weights and give sample summary results and running batch figures.
- Alternatively, data can be stored in memory for mass download at the end of a production period.

### PRODUCT EDITING

- The list of products in the memory can be edited either through the scale, on a host PC in a text file and downloaded or using GSE Wedge™.

### CUSTOMISATION

- As the GSE 60 series is a totally programmable terminal the standard system can be customised to suit the actual production operation and any additional requirements.

MINIMUM REQUIREMENTS

GSE 665 Indicator with custom firmware, 256KB memory module and scale base

STANDARD SPECIFICATION (GSE 665)

Resolution	1,000,000d internal, 100,000d displayed
Signal Input Range	0.1 - 20 mV/V
Operating Temperature	-10° to 40° C (14° to 104° F)
Time/Date Clock	Non-volatile with selectable formats
Power Requirement	AC:90-250 VAC, 50/60 Hz; DC: 10-32 VDC
Excitation Voltage	10 VDC short circuit protected; 400mA, max to power (14) 350 ohm load cells
Number of I/O	128
Port 1	RS232 Full Duplex or RS485 Multi-drop optional or 20mA Current Loop optional
3 Further Ports	Full duplex RS232
Display	LCD, graphic 16 line x 40 character backlit
Universal Enclosure	Stainless Steel IP66
Dimensions	27.98 cm (W) x 30.73 cm (H)

*Number of products and results storage is dependant on the size of memory installed*

OPTIONAL EXTRAS

- Extra memory (256KB standard) 1MB, 2MB
- RS485 / RS422 / Ethernet adaptors
- Radio modems for wireless communications

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