

Datastat SPC Software

and a reside												THE R
in American Site Sur-	Det Inc	n Sauri Jah	hr 34		1						1000	
D-MAD - P	100.00	A Real Property lines	P & (2)	10 151	C K M M							
-84	1	COMPANY.	4 7044	-								
and the local data	and the second	-	-	C and the loss	Contraction of the	-						
An other Distance of the local				-	· Manual Property in the local division of t	-	-	-	-	-	-	Contract of
And in case of the local division of the							-					
1.10								_				- 1
	Concession of the local division of the loca	1 months	-	-			<u>-</u>					
The states	Concerner.	PORT AN	Percer.	Preserver,	58 F	_				-		
	1		00	10	F and	-		-		- 1	- 1	
	12		12	C	(All and	144	-	-	and a	10.0	-	-
Theorem I.	-		6		See. 8	- 6			- 8	- 4	- 6	- 9 1
COLUMN A	1.0		10	S	20.5	-11	-a.	-3				-31
Delivered 4		1.0	10	44						1		
CONTRACTOR OF		1.00	10000	10	00.0	- 2	- 1	- 2	- 2	- 2		
CONTRACTOR OF	40	1.83	18	18								
DEPENDENT OF	-10	1.86		4.9	-1							- 12
6					4							-
CONCEPTION OF	Cateriana I	10000		100234	- Manual Property in	-	_	111 100	a minet		_	1000
5	100				1.0			44.4				-
minaran C.J.	4 B)				10.00000		4		100			
the second second	1 31				and the second	-	1.00					
2000	55	LA.	14		2.00				14.			
	1 2 3	14.4	and and	100		-			- 10			
E. 15	-				i Georgia		1					
	· · · ·		-	-					THE R			
55 IN		101 101	100	1.04	12.00	100	10.0		100			
12 III	101				25.	200		11	311	N		
	ED.					100				10		
PR				A							-	
the period of the later.		And in the local division of the	and the second	14 March 14	and the strength of the			_	-		-	

Datastat SPC Software

At a glance

- Identify areas of concern in your production process.
- Simple, user friendly SPC software package.
- Helps you improve your production process to lower costs and increase efficiency.

Datastat SPC Software

Dataputer's Datastat Computer Software Program provides the means to display your production process and highlights when the process violates control limits. Datastat can also predict future violations and therefore improve your production process by:

- Identifying problem areas in manufacture
- Helping to refine production methods and techniques
- Identifying the root cause of product problems

Improved production process leads to:

- Lower scrap and re-work levels resulting in lower direct costs as fewer components and materials are used.
- More efficient use of machinery and production time.
- Improving the quality of your product leading to greater customer satisfaction reflected in fewer complaints and returned goods.

Although Datastat has been designed with simplicity in mind, this has not been achieved at the expense of functionality. Datastat's wide range of features can be quickly set up using the Datastat Wizard.

Datastat has a comprehensive range of data entry options, charting capabilities, reporting functions and other helpful features, summarised on the following page.

Statistical Process Control (SPC) Software

Used in traditional manufacturing production to make the product and the Quality Department inspect it. After-theevent inspection is expensive and wasteful because:

- The product has already been made
- Costly re-work is not always possible

It is much more cost effective to avoid waste by monitoring and analysing the process during manufacture. This is the basis of Statistical Process Control (SPC).

Controlling The Process

For a product to be made without scrap, it must be manufactured within specified limits. But factors can prevent this from happening:

- Natural Variation: inherent in the machining process and cannot be changed without using a different process or machine
- Assignable Variation: outside influences that are controllable: temperature, sharpness of the blade, speed of manufacturing, skill of machinist etc.

An Example of Variation -A machine cutting straws to length will give an error from straw-to-straw. This is because of the inherent tolerances of the machine - Natural Variation. This is less significant than someone who cuts the same straws to length, using a ruler - Assignable Variation.

This raises the question - Is the manufacturing process able to manufacture within specification?

data sheet





Testing the Process Capability

Continuing our example, cut a number of straws to the required length (usually 50). Accurately measure the straw lengths. Plot the lengths on a graph to identify the variation.

Histogram and Capability charts can be used for this purpose. Once it has been determined that the process is capable, the process can be monitored over time.

Monitoring the Process Over Time

In an ideal world, every product that is being made would be measured. In the real world, there is not enough time or resource to do this so a sample group of product is measured on a regular basis. These groups are known as subgroups.

The subgroups of data are plotted onto a graph - in chronological order:



The average value of each subgroup is then used to generate the Process Control Chart - building up the actual manufacturing process over time - known as the an Xbar Chart.

Setting Control Limits

In order to prevent scrap, a set of "early warning limits" known as Control Limits are established. These limits are set inside the upper and lower specification limits and warn the operator before scrap is produced.



Model	Description	Part Number
Dataputer Datastat	Dataputer Datastat Software	Q29016858

data sheet

Related products



Dataputer Datastat CSV SPC Software

Using advanced programming techniques, Dataputer's Datastat CSV (Client Server Version) is a powerful SPC software program, which gives professional results in an easy-to-use package. Using Client/Server technology with open database connectivity (ODBC), Datastat CSV can be linked to existing data and also allows multiple Users to share a common database. Datastat CSV is available in two versions, Administrator and Shopfloor.



ENGLAND

Elcometer Ltd Edge Lane Manchester M43 6BU

Tel: +44 (0)161 371 6000 Fax: +44 (0)161 371 6010 e-mail: sales@elcometer.com www.elcometer.com

USA

Elcometer Inc 1893 Rochester Industrial Drive Rochester Hills Michigan 48309

Tel: +1 248 650 0500 Toll Free: 800 521 0635 Fax: +1 248 650 0501 e-mail: inc@elcometer.com www.elcometer.com

CANADA

Elcometer Ltd PO Box 622, 401 Ouelette Avenue Windsor, Ontario N9A 6N4

Tel: +1 248 650 0500 Toll Free: 800 521 0635 Fax: +1 248 650 0501 e-mail: ca_info@elcometer.com www.elcometer.com

ASIA & THE FAR EAST

Elcometer (Asia) Pte Ltd 896 Dunearn Rd Sime Darby Centre #3-09 Singapore 589472, Republic of Singapore

Tel: +65 6462 2822 Fax: +65 6462 2860 e-mail: asia@elcometer.com www.elcometer.com

BELGIUM

Elcometer SA Rue Vallée 13 B-4681 Hermalle /s Argenteau

Tel: +32 (0)4 379 96 10 Fax: +32 (0)4 374 06 03 e-mail: be_info@elcometer.be www.elcometer.be

FRANCE

Elcometer Sarl 97 Route de Chécy 45430 BOU

Tel: +33 (0)2 38 86 33 44 Fax: +33 (0)2 38 91 37 66 e-mail: fr_info@elcometer.fr www.elcometer.fr

GERMANY

Elcometer Instruments GmbH Ulmer Strasse 68 D-73431 Aalen

Tel: +49 (0)7361 52806 0 Fax: +49 (0)7361 52806 77 e-mail: de_info@elcometer.de www.elcometer.de