

DATAPRO SERIES

DataPro 5000

Process control and data management systems for wire and cable manufacturing

Capture real-time product and process data from Beta LaserMike gauges during production

Optimize your process with closed-loop feedback

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using live cross-sectional views to instantly make die-centering adjustments

Use SPC data to improve process trends and

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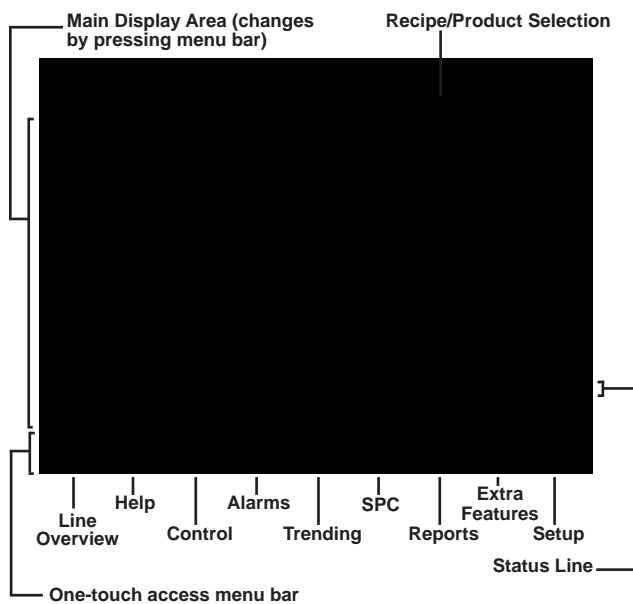
Comprehensive Process Controller & Data Management System

DataPro 5000

DataPro 5000

V@^AÖæcæÚ! [Á Í € € Á ä • Á æ Á @ ä * @ È ^ } ä È Á ~ || ^ Á ~ ^ æ c ~ ! ^ ä Á] : [& ^ • • Á controller and data management system. It has an easy- c [È ~ • ^ È Á c [~ & @ È • & ! ^ ^ } Á ä } c ^ ! ~ æ & ^ Á c @ æ c Á] : [Ç ä ä ^ • Á æ } Á ä } c ~ ä c ä Ç ^ È Á color graphical overview of product dimensions and process parameters. DataPro 5000 is designed with Ç æ ! ä [~ • Á ~ • ^ ! • Á ä } Á { ä } ä K Á [] ^ ! æ c [! • È Á • ~ ^ ! Ç ä • [! • È Á] : [& ^ • • Á ^ } * ä } ^ ^ ! • È Á æ } ä Á] | æ } c Á { æ } æ * ^ ! • È Á V @ ^ Á ~ • ^ ! Á ä } c ^ ! ~ æ & ^ Á & æ } Á à ^ Á ~ ^ ä & ! ^ Á & [] , * ~ ! ^ ä Á c [Á { ^ ^ c Á ^ ~ ! Á ~ } ä ~ ^ Á ä } ~ ! ! { æ c ä [] æ ! Á } ^ ^ ä • Á æ } ä Á æ || [, • Á ^ & ä ^ } c Á æ & & ^ • • Á c [Á ä æ c æ È

Easy-To-Use Touch Screen Interface



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- Analog summing junction control outputs

8 Relays including:

- Contact alarm outputs

- Contact control outputs

Ethernet 10/100 Base T

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Parallel port

USB/Network printer port

VGA output for additional monitor

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*The number of inputs/outputs can vary based on application needs. Discuss communication requirements with our application specialists.

DataPro 5000 Features:

Color touch-screen display

Line overview page

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alarm history log

Real-time V! ^ } ä ä } * Á Ç & [] , * ~ ! æ à | ^ Á c ! ^ } ä ä & @ æ ! c • D

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on-screen statistics and charts

Reporting capabilities including customizable printed

or electronic reports (product ID/product lot number/

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Networking (Ethernet and USB ports allow easy

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Instant support of multiple languages for operation and

printing; user-customizable

Options

Industrial enclosure – arm or pedestal mountable

Industrial remote touch-screen – includes VGA extender and industrial enclosure

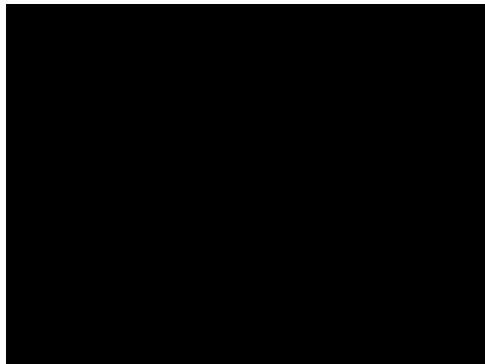
Ü c æ } ä æ ! ä Á ! ^ { [c ^ Á c [~ & @ È • & ! ^ ^ } Á . Á ä } & | ~ ä ^ • Á X Ö È Á ^ c c ^ } ä ^ ! È but does not include enclosure

Pedestal stand for enclosures – controller industrial enclosure or remote touch screen

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Intelligence that transforms the world.

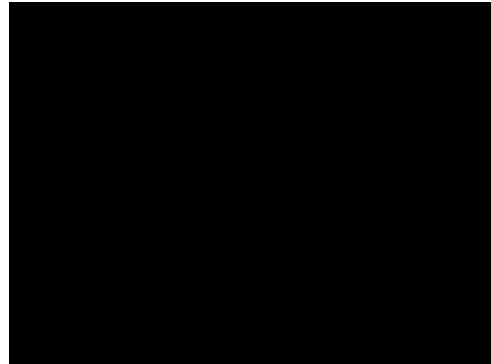
Real-Time Monitoring of Process and Product Quality Data



<< **DataPro 5000 Line Overview Page** provides a complete line overview along with relevant process data. Can be easily

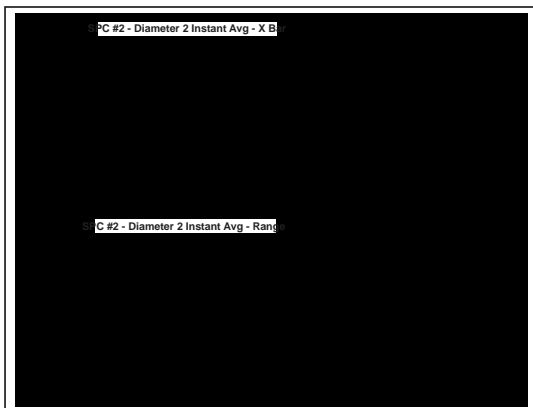
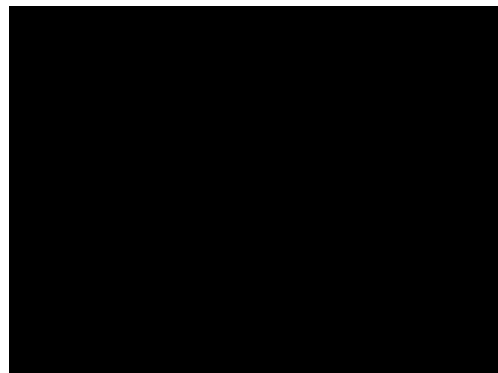
DataPro 5000 Eccentricity View enables you to accurately monitor the eccentricity of wire and cable conductors during extrusion and insulation processes

>>



<< **DP5000 Real-Time Trend Charts** allow you to easily select the data set you want to track and record with

DataPro 5000 SPC Data Analysis feature collects and displays process data on 8 individual channels. Customized SPC calculations help you to improve product trends and the



<< **DP5000 Reporting** feature lets you create and print custom error and SPC reports with graphical distribution to document product

```
*DataPro 5000 Datalog File
Started 14-Mar-14
15:15:01
*DataLog_Line35_14-Mar-14
*Time          OD1          OVALITY1
15:15:31       1.026       0.124
15:16:01       1.027       0.125
15:16:31       1.036       0.134
15:17:01       1.040       0.135
15:17:31       1.035       0.134
15:18:01       1.039       0.137
15:18:31       1.041       0.136
15:19:01       1.029       0.127
15:19:31       1.021       0.119
15:20:01       1.030       0.128
15:20:31       1.029       0.127
```

<< **DP5000 Data Logging** feature allows you to record and analyze process data without having to stand near and observe the extrusion line. Data can be logged manually or automatically to a local drive at the DataPro 5000 or to a network drive away from the plant from 1 second to 10 minutes.

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Process Controller & Data Management System

DataPro 3100

The DataPro 3100 is a mid-range process controller with a touch-screen display for easy viewing on the production in a compact design.

DataPro 3100 Features:

Color TFT touch-screen display

Provides power and communication for up to two gauges

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Alarming for warning and tolerance limits

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Û^&â]^•ÁÇF€€Á]! [â~&cÁ!^&â]^•Á- [!Á~â&\Á&@æ} *^[Ç^!•D

Û^&~!âc^ÁÇHÁ|^Ç^|^•Á- [~Á•^&~!âc^Á- [!Á•~•c^ { Á]! [c^&câ [] D

Instant support of multiple languages for operation and printing

DataPro 3100

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- Analog summing junction control outputs

- Programmable Analog output

4 Relays including:

- Contact alarm outputs

- Contact control outputs

Open collector stepper motor control outputs

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WÛÓÁ] !â}c^!Á] [!cÁÇV!~^ÁV^ ^Á~ [] cD

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Šâ}^Á•]^•^âD|^} *c@Á { ^æ•~!^ { ^} cÁâ}] ~cÁÇÇâæÁÇE}æ| [*ÉÁ] ~|^•^ÉÁ [!Áââ ^!^} câæ|Áâ}] ~c•ÁÇEDÓD

Option

Industrial enclosure—pedestal mountable and I Ì ÈG Î Á { { ÁÇFJÁâ}ÉDÁ!æ&\Áæâæ] c^!•

Economical Process Controller & Indicator

DataPro 1000

V@^ÁÖæœÚ! [ÁF€€€Á•Áæ}^&[] [{ ð&æ|Á]! [&^••Á&[] c! [||^!ÉÁ as well as an indicator for diameter control operations. It [^!•ÁæÁ•^|~Éc~ } ð } *Á&[] c! [||^!Áâá•] |æ^Ác [Áæ&@ð^Ç^Ác@^Áà^•cÁ results when capturing product diameter measurements. V@^ÁÖæœÚ! [ÁF€€€Á [^!•Ác@^Áâ^•cÁ [~Áà [c@Á , [!|á•Á , @^ } Á | [[\ð } *Á~ [!ÁæÁ& [•cÁ^ ^&cðÇ^Áà~cÁ [[, ^!~ |Á] æ&\æ*^É

DataPro 1000

DataPro 1000 Features:

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Supports 1 diameter gauge

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Alarming for warning and tolerance limits

Ùcæcá•cá&æ|ÁÚ! [&^••ÁÔ [] c! [|ÁÇÙÚÔDÁ , ác@Á on-screen statistics

Programmable analog output

Ethernet data transmission

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USB printer port

Instant support of multiple languages

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GÁÇ } æ| [*ÁQðUÁÇ!F€ÁXÉÁFGÁàáçDK

- Analog summing junction control output

- Programmable Analog output

4 Relays including:

- Contact alarm outputs

- Contact control outputs

Open collector stepper motor control outputs

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WÙÓÁ!ð } c^!Á [[!cÁÇV!~^ÁV^] ^Á~ [] cD

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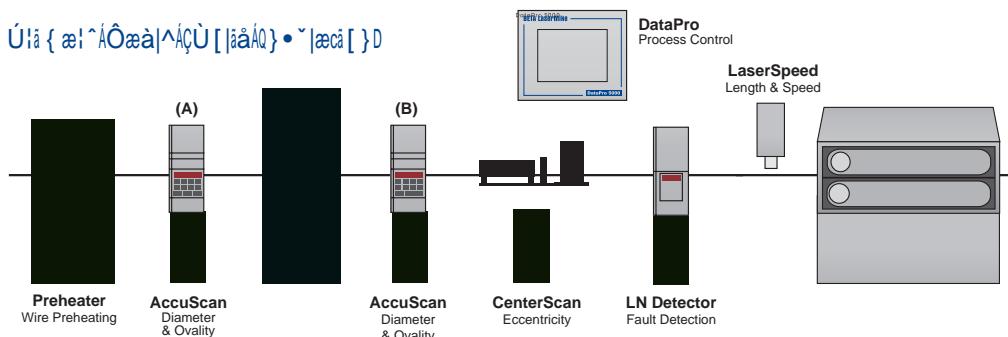
Option

Industrial enclosure—pedestal mountable and
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Integration with In-Process Dimensional Measurement Products

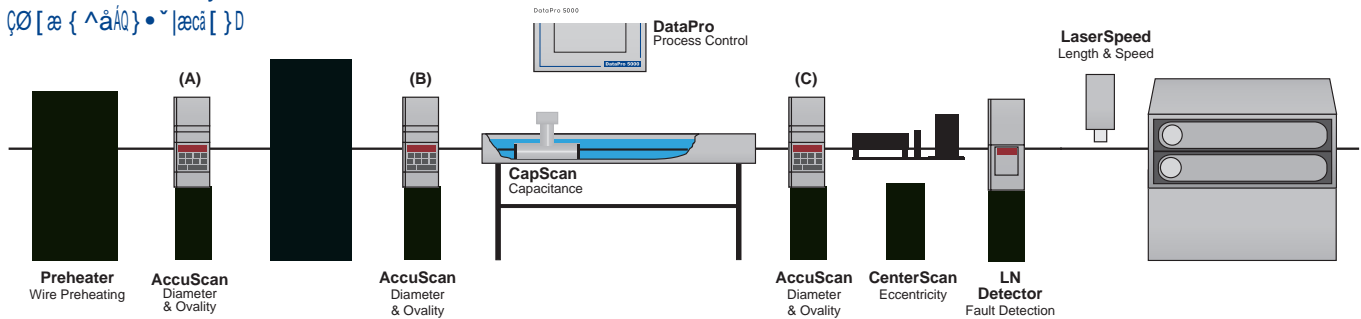
Alarm lights and printers can also be connected. Beta LaserMike DataPro controllers are also available in 27 customized configurations.

Wire Preheating, Diameter & Ovality, Eccentricity, Fault Detection

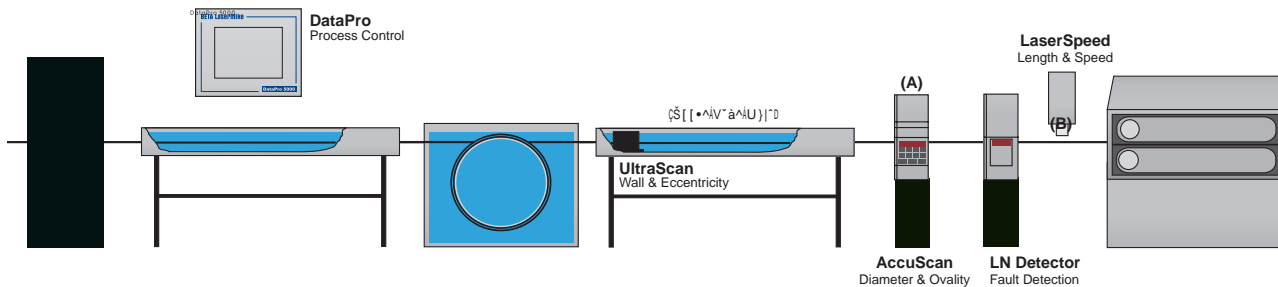


Coaxial & Primary Cable

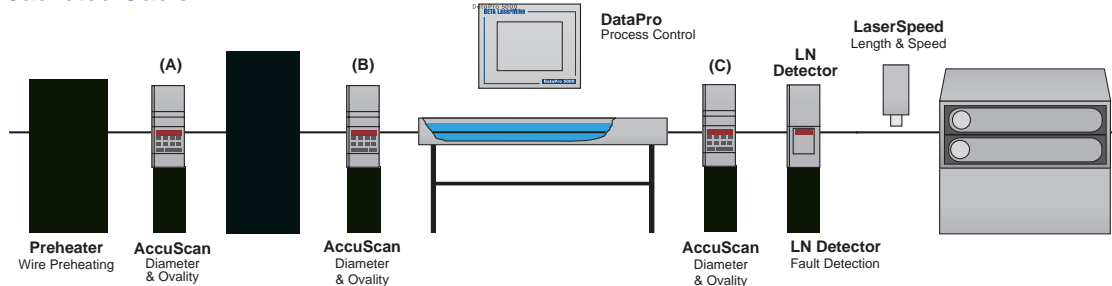
Capacitance, Diameter & Ovality, Fault Detection



Wall & Eccentricity, Diameter & Ovality, Fault Detection



Jacketed Cable



DataPro Controller Models

DataPro 5000

DataPro 3100

DataPro 1000

DataPro Controller Models			
Feature	DataPro 5000	DataPro 3100	DataPro 1000
Display	H I È F Á & { Å Ç F Í Å } È D Á Á TFT touch screen	F I È Í Á & { Å Ç Í È Í Å } È D Á Á TFT touch screen	F È È Í Á & { Å Ç Í È F Å } È D Á Á X æ & ~ { Å ' ~ [Í Å • & ^ } c
Gauge support	AccuScan 4000/5000/6000 UltraScan Pro LaserSpeed Pro Lump & Neck CenterScan CapScan Preheater	AccuScan 4000/5000/6000 UltraScan Pro LaserSpeed È Û ~]] [! c • Å ^ * æ & ^ Á * æ ~ * ^ •	AccuScan 4000/5000 LaserSpeed Pro È Û ~]] [! c • Å ^ * æ & ^ Á * æ ~ * ^ •
Max gauges	Not limited	2	1
Applications	Inner/Outer Diameter Wall & Concentricity Length & Speed Fault Detection Eccentricity Capacitance Preheating	Inner/Outer Diameter Wall & Concentricity Length & Speed	Outer Diameter Length & Speed
Cross-section display	ÿ Å • Å Ç { ~ c Ë æ ^ ^ Í Á] [• • à ^ D Á	ÿ Å • Å Ç F Å æ ^ ^ Í Á [] ^ D Á	Þ [Á Á
Control loops	2	1	1
Auto setpoint control	Yes	No	No
SPC	8 graphical channels	2 numeric channels	1 numeric channel
Trend charts	Í Á & @ æ } ^ • Á	ÿ Å • Å Ç ~ c æ • [] à & D Á	Þ [
Printed reports	ÿ Å • Å Ç & ~ • c [{ D Á	ÿ Å • Å Ç , c ^ à D Á	ÿ Å • Å Ç , c ^ à D
Data logging	Yes	No	No
Serial ports	Ü Ü È G H G Á B Á W Ü Ó Á	Ü Ü È G H G Á Ç G D Á	Ü Ü È G H G
Ethernet port	ÿ Å • Å Ç F È F È F È Á Ó æ • ^ Á V D Á	Ô [] , * ~ ! æ c ä [] Á B Á Ô æ c ä Á Ü ~ c] ~ c Á	Ö æ c ä Á Ü ~ c] ~ c
Alarming	Yes	Yes	Yes
Product recipes	ÿ Å • Å Ç ~ } à { æ ^ à D Á	ÿ Å • Å Ç J J D Á	Þ [
Security	F È Á ^ Ç ^ • Å Ç & ~ • c [{ D Á Á	H Á ^ Ç ^ • Å Ç [] ^ æ c [Í È Á Á • ~] ^ ! Ç à • [Í È Á • ^ ! Ç à & ^ D Á	G Á ^ Ç ^ • Å Ç [] ^ æ c [Í È Á • ^ ! Ç à & ^ D
Remote display output	VGA with optional touch screen	No	No
I/O	Ö ä * ä c æ È Á æ } æ [* È Á ^ æ ^ Á Á & [] c æ & c • È Á • ^ ! æ æ È Á W Ü Ó Þ ^ c , [! \ Á Á] ! à } c ^ ! È Á Ô c @ ^ ! } ^ c Á B Á X Ó Ç È	Ö ä * ä c æ È Á æ } æ [* È Á ^ æ ^ Á & [] c æ & c • È Á Á • ^ ! æ æ È Á W Ü Ó Á] ! à } c ^ ! Á B Á Ô c @ ^ ! } ^ c Á	Ö ä * ä c æ È Á æ } æ [* È Á ^ æ ^ Á & [] c æ & c • È Á Á • ^ ! æ æ È Á W Ü Ó Á] ! à } c ^ ! Á B Á Ô c @ ^ ! } ^ c Á
Interfaces with PLC	ÿ Å • Å Ç Ü Ü È G H G D Á	T ^ æ • ~ ! ^ { ^ } c Á Ô æ c ä Á	Þ [

Precision Measurement & Control Solutions

The Beta LaserMike line of measurement and control solutions from NDC Technologies is designed to provide accurate, reliable, and easy-to-use measurement and control solutions for a wide range of applications. The Beta LaserMike line is designed to provide accurate, reliable, and easy-to-use measurement and control solutions for a wide range of applications. Every system is backed by NDC's world-class service and support organization. With NDC's world-class service and support organization, you can be confident that your system will be up and running in no time.

NDC Technologies is represented in over 60 countries worldwide. www.ndc.com/betalasermike

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Document #: C&T-BROC-CTRL-DataPro WC-EN-2021DEC10
Date of Issue: December 2021
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