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Analog Signal Conditioners • Panel Meters • Data Acquisition Systems • Transducers

## 50 Family of High－Accuracy Signal Conditioning Modules



Each compact 5D Series Signal Conditioner Module is a self－contained，easily configurable，physically hardened instrument，with pluggable screw－terminal connectors．The DIN－mountable 5D modules provide exceptionally stable，repeatable measurement results within an environment of high mechanical and／or electrical noise．They are ideal for critical monitoring operations and high－speed analog control loops．Gain，phase，excitation，filters，zero－span，and other critical characteristics are programmable per application，making the 5D Series adaptable to a wide range of sensors with minimal module selection required．

50 Module Specifications：

| Housing | Extruded aluminum casing；mountable to panel，fixture，or DIN－rail |
| ---: | :--- |
| Dimensions | HWD： $3.1^{\prime \prime}$ x $0.85 " \mathrm{x} 3.3$＂ |

## Models Available（5D Family）

| $\mathbf{0 - + / - \mathbf { 5 }}$ |  |  |  |
| :---: | :---: | :---: | :---: |
| Standard（db－25） | $\mathbf{0 - + / - \mathbf { 5 }}$ <br> Screw Terminal | $\mathbf{0 - + / - 1 0}$ <br> Screw Terminal | 5 D 30 V |

## Model 5DMB

Motherboards \＆Chassis



Daytronic offers four motherboards for mounting and organizing of the 5D modules．Each motherboard contains individual DB25＂slots＂for the mounting of the 5D Module to organize the power，communications and the analog signals for convenient hook up to your application．Motherboard requires the 5D module to contain the DB25 connector interface．

Four position，panel mount Eight position，panel mount Sixteen position，panel mount Sixteen position， $19^{\prime \prime}$ chassis mount with integrated AC power supply（as shown）

## 5M Family of Analog－DIN M ount Signal Conditioning Modules



Each 5M DIN Mount Signal Conditioner Module is a self－contained，manually configurable，analog conditioning instrument with non－removable screw－ terminal connectors．Every 5 M module is specifically designed to condition the appropriate connected sensor for repeatable and accurate analog measurement results．They are ideal for critical monitoring operations and high－speed analog control loops．Gain，phase，excitation，filters，zero－span，and other critical characteristics are selectable per the front panel without the need to open the DIN case－allowing easy setup and configuration without the need for software or computer support．

## 5M M odule Specifications：



## M odel IL70

## In－Line DC Strain Gage Conditioner

For applications requiring close proximity of the conditioner to the sensor；consider the IL70 In－Line unit．This conditioner utilizes the same basic features of the 5 M 70 DIN mount version but with a waterproof－sealed enclosure．Connections are made via screw terminals located inside the enclosure which also houses the switch selections and adjustments to provide an amplified voltage or current output for the application．Wider input power，from 11 to 28 Vdc allows the unit to be used for mobile as well as fixed installations．


Daytronic Series 2000 is a general purpose，low cost，panel meter for instrument applications involving simple readout requirements requiring high resolution．The meter family has many optional features that include limit monitoring，DAC analog output，Max capture，Tare，Hold，computer communications and extended range features．

## 2000 Series Basic Meter Specifications：

Physical／Environmental

| Case | NEMA 4 （IP65）when mounted in panel；1／8 DIN，with high－impact GE Lexan housing material |
| :---: | :---: |
| Instrument Dimensions（HWD） | 48 mm （1．89 in．）x 96 mm （3．78 in．）x 117 mm （4．61 in．） |
| Power（Meter） |  |
| Input Voltage（Standard） | Universal 85 to 264 VAC ； 90 to 370 VDC 5．3 W max |
| Low－Level Input Voltage （＂G＂Option） | Universal 8 to 28 VAC ； 9 to 37 VDC |
| Frequency | DC and 47 to 440 Hz |
| Display |  |
| Readout | 5 digits（Conditioner Meters）or 6 digits（Counter Meters），with blanking of leading （non－significant）zeroes； 7 －segment； 14.2 mm （ 0.56 in ．）high |
| Color（Standard） | Red（green available on request） |
| Range（Conditioner Meters） | -99999 to +99999 and－99990 to＋99990（count by 10 with rounding） |
| Range（Counter Meters） | -99999 to +99999 ，with programmable decimal point；selectable count by 10 or 100 with rounding；XXXXEX scientific notation beyond 99999 （RATIO or DRAW mode with＂R＂Option，only） |
| LED Lamps | Minus sign； 2 red alarm－status indicators； 1 yellow displayed－item indicator （Counter Meters only）；see diagram above |
| Models Available | Options |
| 2110 Thermocouple Series | A Dual Contact Relays－Limits M Modbus Comm Card |
| 2118 RTD Series | B Dual Solid State Relays－Limits U USB Comm Card |
| 2135 Quadrature Encoder Meter | C Analog Output（＋／－10 Vdc／4－20mA）U5 USB／RS485 Comm Card |
| 2140 Counter Meter | D RS－232 Communications |
| 2160 DC Voltage Input | E RS－485 Communications |
| 2161 DC Current Input | G Low Power（9－32 Vdc） |
| 2162 4－20 ma Process Input | A4 Quad Contact Relay Card |
| 2168 AC RMS Voltage Input | B4 Quad Solid State Relay Card |
| 2169 AC RMS Current Input | C2 Dual Analog Output－Counter Meter Only |
| 2170 DC Strain Gage（six wire） | R Extended Range Meter－Counter Meter Only |

## Series 3000 <br> Analog Based Panel Instrument <br> DC Strain Gage，AC Strain Gage， AC LIDT，Frequency，DC Voltage



The Series 3000 Instrument offers front end signal conditioning for applications which require stable，accurate analog signals that will connect to Controllers，Plotters， PLCs or PC acquisition system to provide isolation and signal integrity from the sensor． Every Model 3000 has an analog $+/-5$ Vdc voltage level continuously available for use external to the instrument．Internally，the meter uses this continuous analog signal for optional Limit Detection and／or Peak Capture circuits．Based on traditional analog circuit hardware，this meter offers＂real time＂control and signal capture without concern of digitizing sampling speeds which may cause repeatability errors．The Model 3000 is ideal for industrial processes which require highly repeatable sensing of the sensor for product quality and conformance specifications．

## 3000 Series General Specifications：

## Physical／Environmental

| Case | Each unit is housed in a single piece of heavy－gage aluminum |
| :---: | :---: |
| Mounting | A simple reassembly procedure allows mounting in the user＇s precut panel（for cutout dimensions，maximum panel thickness allowed is $1 / 8^{\prime \prime}$ ）；the Model 3004 Rackmount Adaptor permits secure mounting of up to four units in a standard 19 －inch rack |
| Weight | Instrument：approximately $2.0 \mathrm{Lbs}(0.9 \mathrm{~kg})$ maximum Shipping：approximately $3.5 \mathrm{Lbs}(1.6 \mathrm{~kg})$ maximum |
| Power |  |
| Voltage | 105－135 VAC standard；＂F＂option for 230 VAC operation |
| Frequency | $50-400 \mathrm{~Hz}$ |
| Display（Form 2 and Form 3 instruments only］ |  |
| Display | Orange LEDs，six digits with polarity sign， 0.4 ＂（ 1.0 cm ）height；Most Significant Digit of display is either unit or reads＂ 1 ，＂and in either case contains polarity sign；Least Significant Digit is a dummy zero which may be lit or unlit，as desired |
| Scaling | Selectable at rear panel；full－scale values of $\pm 5000$ counted by＂ 1 ＇s＂，$\pm 10000$ counted by＂ 2 ＇s＂，or $\pm 20000$ counted by＂ 5 ＇s＂，with selectable decimal－point locations （along with dummy zero）to give decade multiplier factors of $10,1.0,0.1,0.01,0.001$ ，or 0.0001 |
| Sampling Rate | 3 samples per second for the display，analog output signal is continuous |
| Limit Logic（form 3 instruments only） |  |
| Logic Outputs | Both true and complement available for each limit condition（LOW，OK，HIGH）； <br> TTL－compatible，wire－ORable， $10-\mathrm{mA}$ sink， $0.5-\mathrm{mA}$ source（maximum）；normally non－latching，but latching outputs are also selectable |

## Models Available

| 3130 | AC LVDT Conditioner |
| :--- | :--- |
| 3140 A | Frequency Conditioner |
| 3163 | DC Voltage Input Conditioner |
| 3170 | DC Strain Gage Conditioner |
| 3178 | AC Strain Gage Conditioner |
|  |  |
| 32xx | Readout added to the Conditioner |
| 33xx | Readout and Limit added to the Conditioner |

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## Options

| F | 230 Vac Power Input |
| :--- | :--- |
| P | Peak Capture |
| C | Analog Current Output 4－20 mA |
| G | Isolated Analog Voltage Output $+/-10 \mathrm{Vdc}$ |
| R | Contact Limit Relays |
| S | Solid State Limit Relays |

P Peak Capture
C Analog Current Output 4－20 mA
G Isolated Analog Voltage Output $+/-10$ Vdc
R Contact Limit Relays
S Solid State Limit Relays

## 3700 Family of Digital Readouts with real time－ amplified Analog Output



The 3700 unit is a single－channel panel instrument for sensor conditioning， engineering unit＇s readout and true amplified analog output．The 3700 series is based on the popular Daytronic 3000 meters in its focus to provide a stable，user configured， display and a noise free amplified analog signal for the measurement of force，load， displacement and other parameters associated with low level sensor signals．The display is user configured for engineering unit scaling up to＋／－199950．．． independently of the analog signal，maximizing the capabilty of the analog signal output level．The 3700 also has an added feature of a true analog＂TARE＂button for quick zero offset alignment．

## 3700 Specifications：

Housing
Dimensions
Power Requirements
Input Types and
Ranges

Analog Filters
Input Overvoltage
ESD Protection
Accuracy
Operating Temperature
Analog Outputs
Display
Indicator LED

Models Available（3700 Family）

| Model | Description | Features |
| :---: | :--- | :--- |
| $\mathbf{3 7 3 0}$ | AC LVDT | 16 to $1600 \mathrm{mv} / \mathrm{V}$ ，remote sense，auto／manual phase，wide zero，null |
| $\mathbf{3 7 4 0}$ | FREQUENCY | 250 Hz to 124 KHz ，low level signal sensitivity，front panel calibration |
| $\mathbf{3 7 6 0}$ | DC Voltage $-4-20 \mathrm{~mA}$ | 50 mV to $200 \mathrm{Vdc} / 4-20 \mathrm{~mA}$ |
| $\mathbf{3 7 7 0}$ | DC Strain Gage | 0.5 to $10.0 \mathrm{mv} / \mathrm{V}$ ，remote sense，wide zero，symmetry，shunt calibration |
| $\mathbf{3 7 7 8}$ | AC Strain Gage | 0.5 to $5.0 \mathrm{mv} / \mathrm{V}$ ，remote sense，phase，wide zero，symmetry，shunt calibration |

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> Instrument Panel Meter using the $50 \begin{gathered}\text { Module Signal } \\ \text { Conditioners }\end{gathered}$


The 3000PLUS Panel Meter is a field－scalable indicator with operator－ programmable signal processing and PC／PLC communications．Mechanically and electrically rugged instrument is ideal for pump，motor，hydraulic，and other high－noise monitoring applications．The meter maintains signal integrity to deliver accurately scaled analog output of $\pm 5$ VDC，$\pm 10 \mathrm{VDC}$ ，or $4-20 \mathrm{~mA}$ ，while sampling all data at 16 －bit resolution．Peak capture，tare offset，signal hold，and limit－controlled relay functions are included．

## 3000PLUS Specifications：

Case and Dimensions
Power Requirements
Operating Temperature Range
Sample Rate
Data Display
Data Value Display
Analog Output
Relay Logic Outputs
Communications
Logic I／O
Set－Up
Indicators

Extruded metal chassis，mountable to user＇s panel；secure rear connections via screw terminals．HWD： $1.7^{\prime \prime} \times 4.41^{\prime \prime} \times 7.17^{\prime \prime}$（Same footprint as 3000 Series）
$24 \mathrm{VDC} \pm 10 \%$ ； 300 mA nom．； 350 mA max．；8．4 W；optional AC adapter
$-18^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}\left(0^{\circ} \mathrm{F}\right.$ to $\left.130^{\circ} \mathrm{F}\right)$
10 kHz
6－digit red LED；count by 1，2，or 5 resolution to maximum of 199990；selectable digital filtering
Channel 1：Engineering Units reading on input．
Channel 2：Peak／Tare value of Channel 1
Channel 3：Multimeter reading of Channel 2＇s electrical unit＇s value．
1）Live ：＂True＂analog signal as defined by the 5D Module setting
2）Selectable DAC $\pm 0$ to $5 \mathrm{VDC}, \pm 0$ to 10 VDC ，or $4-20 \mathrm{~mA}$ ，single－ended； 14 －bit resolution； $47-\mathrm{Hz}$ filter；update rate of 20 msec
Two limit settings．Contract Relay outputs for High－OK－Low，selectable polarity； 8 A， 250 VAC at full resistive load
Three－wire RS232 for setup and data transfer
TARE，Have Peak Detected，Latch Limits，Hold，Peak
Via front panel keypad or via computer interface utilizing Windows Configurator
For setup sequence，HI－OK－Low，communications and display channel indication．

Models Available－refer to 5D Series for sensor parameters

| 3KPlus－30 | AC LVDT Conditioner／Indicator／Controller |
| :--- | :--- |
| 3KPlus -40 | Frequency Conditioner／Indicator／Controller |
| 3KPlus -64 | DC Voltage Conditioner／Indicator／Controller |
| 3KPlus -70 | DC Strain Gage Conditioner／Indicator／Controller |
| 3KPlus -78 | AC Strain Gage Conditioner／Indicator／Controller |

## Series 4000 Intelligent Signal Conditioning Controller

DC Strain Gage，AC Strain Gage， AC LIDDT，Frequency，DC Voltage


One of the first＂Intelligent＂panel meters on the market，the Series 4000 Instrument is a combination of a sensor signal conditioner，a user display and interface，and a programmable logic controller．The Series 4000 Instrument，though intended as a stand－alone device，can also communication with a computer or PLC via its digital interface link．The internal setup of the Series 4000 lets the user configure the meter to the specific application using a mixture of analog and digital functionality．

## 4000 Series General Specifications：

Physical／Environmental

| Case | DIN package outline of extruded metal，with splash－resistant front panel |
| ---: | :--- |
| Mounting | Clamp slides allow mounting in user＇s precut panel（for cutout dimensions，maximum <br> panel thickness allowed is $\left.0.24^{\prime \prime}(6 \mathrm{~mm})\right)$ |
| I／O Connections | Secure rear connections via screw terminals <br> Operating Temperature Range |
| $0^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}\left(+32^{\circ} \mathrm{F}\right.$ to $\left.+122^{\circ} \mathrm{F}\right)$ |  |
| Instrument Weight | Approximately $3.5 \mathrm{Lbs}(1.6 \mathrm{~kg})$ |

## Power

> Voltage

Data－Ram Battery

90－135 or 180－279 VAC，selectable by rear－panel switch；optional 11－18 VDC （＂V＂Option）$\quad 47-63 \mathrm{~Hz} 35 \mathrm{~W}$ maximum
3－V lithium；the instrument will display＂LO bat＂on power－up when the battery is found to be low

Signal Gondfioning CILL MODELS）
Conversion
Internal 15－Segment Linearization

16 －bit（ $\pm 32000$ count）； 1000 finished engineering－unit answers per second，typical
Programmable from front－panel or by computer－port command

## Logic I／O

Logic I／O TTL－and CMOS－compatible；isolated（ $\pm 1500 \mathrm{~V}$ ）from power and communication ports

## Analog Output

| ＂Source＂Channel | Any scanned channel may be represented by the 4000 instrument＇s single analog |
| :--- | :--- |
| Full－Scale Range $\pm 10 \mathrm{~V}$ ，microprocessor driven and scaled $\pm 1 \mathrm{mV}, 5 \mathrm{~mA}$ max， 40 Hz max |  |

Communications
Serial
9－pin RS232 standard；RS485 optional baud rates from 300 through 153．6K

## Models Available

| 4030 | AC LVDT Conditioner |
| :--- | :--- |
| 4032 | Dual Input AC LVDT Conditioner |
| 4040 | Frequency Conditioner |
| 4060 | DC Voltage Input Conditioner |
| 4062 | Dual Input DC Voltage Conditioner |
| 4077 | DC Strain Gage Conditioner |
| 4078 | AC Strain Gage Conditioner |
| $4 \mathrm{~K} / \mathrm{HP}$ | Horsepower Unit，AC Strain \＆Freq |


| 4K／PM－77 | Peak Monitor－DC Strain Gage |
| :--- | :--- |
| 4K／SPC－30 | Statistical Process Control－AC LVDT |
| 4K／SPC－32 | Statistical Process Control－Dual AC LVDT |
| 4K／SPC－60 | Statistical Process Control－DC Voltage |
| 4K／SPC－62 | Statistical Process Control－Dual DC Voltage |
| 4K／SPC－77 | Statistical Process Control－DC Strain Voltage |
| 4K／WT－77 | Industrial Weighting Instrument－DC Strain Gage |

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## SPS6000 Multi－Channel Signal Conditioning Front End Unit



The SPS6000 Signal Processing System serves as a high－speed front end for PC－based data acquisition systems，distributed control systems and industrial PLC＇s．In addition to the highest－ quality Signal Conditioning，it provides user－ configured Analog Signal Operations like sum／ difference，$+/-$ peak capture and sample／hold， auto zero and limit control．Proven analog technology lets the system recognize even the quickest of transient events，while analog limit decisions provide instantaneous outputs on critical violations．

Every SPS6000 system represents a COMPREHENSIVE INTEGRATED SOLUTION， carefully engineered to meet a specific test and measurement application＇s demands for precision， flexibility and reliability．．．

## SPS6000 General Specifications：

| Physical |  |
| :---: | :---: |
| Housing | Compact，rugged chassis of extruded metal；splash－resistant front panel；fan－driven pressure air flow；damp slides allow mounting in user＇s precut panel |
| Weight（typical system） | $12 \mathrm{Lbs} \mathrm{( } 5.5 \mathrm{~kg} \mathrm{)} \mathrm{approximate}$ |
| Power Requirements | Input Voltage：Continuous power range from 100 to 240 VAC ； 55 W maximum；Frequency： $47-63 \mathrm{~Hz}$ |
| Environmental | Operating temperature range：$+5^{\circ} \mathrm{C}+50^{\circ} \mathrm{C}\left(+40^{\circ} \mathrm{F}\right.$ to $\left.+122^{\circ} \mathrm{F}\right)$ ； |
|  | Relative Humidity：5\％to $95 \%$ noncondensing |
| ESD Protection | In addition to conformance to CE EMC specifications，protection of all inputs and outputs is provided |
| Display（optional） | 8 －digit 0.562 ＂orange LED＇s |
| Front－Panel Indicators | Two green lights，one for system power indication（＂POWER＂）and one for system health indication |
| Signal Conditioning \＆Processing | （＂OK＂） |
| Analog Inputs | Up to 32 per SPS6000 mainframe（handled by up to 8 Signal Conditioner cards－up to 4 input channels per card）；for complete card specifications and SPS6000 compatibility see the latest Daytronic Signal Conditioner Cards catalog |
| Standard Input Types | Thermocouples（Types E，J，K，N，R，S．and T）；RTD＇s（ 100 －ohm platinum，DIN or American standard）； LVDT＇s（5－or 7－wire，capable of 3280 Hz operation）；Variable Reluctance Transducers（3－or 5－wire）； Pulse signals（AC or unipolar，floating or grounded，irrespective of waveform）；DC Voltage Signals（2－， 3 －，or 4 －wire，floating or grounded）； $4-20 \mathrm{~mA}$ Current Signals（unipolar or bipolar）；AC Voltage or Current Signals；Strain Gage Transducers（4－arm bridge， $350 \Omega$ or higher，DC－or AC－excited）；Strain Gage Configurations（1／4－bridge， $1 / 2$－bridge，or full－bridge） |
| Analog Outputs | Up to 32 per SPS6000 mainframe（from up to 2 Analog Signal Processor cards－up to 8 or 16 outputs per card）；Accuracy： $0.02 \%$ of full scale，typical，following calibration by user；Voltage：$\pm 10 \mathrm{VDC}$ ； Bandwidth：Up to 10 kHz ，set by conditioner card |
| Logic I／0 |  |
| General | +5 V Reference Supply provided；maximum current is 50 mA ，total；external reference supply may be alternatively used；allowable $\mathrm{V}_{\mathrm{cc}}$ range is +5 V to +24 V |
| Logic Inputs | Up to 8 per ASP card（for direct control of assigned processing functions）；high－impedance device with internal $10 \mathrm{~K} \Omega$ pull－up to $\mathrm{V}_{\mathrm{cc}}$（＂Logic 1＂）；may be driven by TTL，LSTTL，CMOS $(+5 \mathrm{~V})$ ，or through dry contacts to Common |
| Logic Outputs | Up to 8 per ASP card（for external annunciation and control）；open－collector current sink with internal $10 \mathrm{~K} \Omega$ pull－up to $\mathrm{V}_{\mathrm{CC}}$ ；maximum sink current is 50 mA per output |

Models Available

| SPS6108D－CE | Eight Channel Mainframe w／display |
| :--- | :--- |
| SPS6116D－CE | Sixteen Channel Mainframe w／display |
| SPS6132D－CE | Thirty－Two Channel Mainframe w／display |
| SPS6701 | Sum／Difference Module |
| SPS6702 | Peak and Track／Hold Module |
| SPS6703 | Auto Zero Module |
| SPS6704 | Comparator Module（Limit Zones） |
|  | See＂A＂card listing for signal conditioning cards that are available |
|  |  |

## System 10 Multi－Channel Signal Conditioning \＆ Data Acquisition System



## System 10 Specifications：

| Physical |  |  |
| :---: | :---: | :---: |
|  | Mounting Power | All mainframes are RACK－or PANEL－MOUNTABLE；Rackmount Kits are available for all models less than 19 ＂wide；contact the factory for precise panel cutout dimensions required by any given model |
|  | Requirements | 90－130 or 180－260 VAC（ 47.63 Hz ）standard for all mainframes．Maximum amperage varies with mainframe＂family＂： 0.5 amp for＂10KU＇s＂（ 50 W typical）； 2 amps for＂10K1，＂＂10K2，＂and＂10K4T＂ families（ 100 W typical）；and 3 amps for all＂B－sized＂mainframes（ 100 W typical）．Optional 12－28 VDC external power available for certain＂A－sized＂mainframes |
|  | Environmental | Operating Temperature Range：$+5^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}\left(+41^{\circ} \mathrm{F}\right.$ to $\left.+122^{\circ} \mathrm{F}\right)$ Operating Relative Humidity： $95 \%$ maximum（noncondensing） |
| Signal Gondifioning \＆Processing |  |  |
|  | Internal Scan Rate | Typically 2500 to 3000 channels per second，depending on the mainframe＇s CENTRAL PROCESSOR model and the number and＂types＂of channels being scanned；this rate includes all internal numeric processes（linearization，＂ $\mathrm{y}=\mathrm{mx}+\mathrm{b}$＂scaling，limit decisions，cross channel computations，etc．） |
|  | A／D Resolution | 16 －bit（ $0.0015 \%$ of full scale）；for all Conditioner Cards，measurement resolution is determined by the user during system calibration |
|  | Filtering | Multiple low－pass active analog filter per channel（see Conditioner Cards Catalog for specific cards）； additional digital smoothing function per channel with individually selectable quieting factor |
|  | Custom <br> Linearization | 58 segments anchored at any of 256 breakpoints to profile the input at any selected position on the curve， for up to eight individual inputs per mainframe；can normally achieve linearity with errors of less than $0.05 \%$ of full scale；software included for setup of linearization tables |
|  | Overall | $0.02 \%$ of full scale typical，following calibration（see Conditioner Cards Catalog for specific cards） |
|  | Accuracy Real－Time Clock and Date | Battery backup ensures correct time and date；PLEASE NOTE：System 10 is＂ 2000 Compliant，＂since a Julian calendar is used to express the date in MM／DD／YY format．The system only requires that＂YY＂ be manually reset at the beginning of each year． |
|  | Power－Off Protection | All setup data（calibration，limit values，video page formats，etc．）stored in nonvolatile＂Zero－ Powered＂（battery backed）RAM；configuration＂Write Protection＂may be enabled and disabled via physical or software switch |

Communications
RS－232－C Serial ASCII standard at baud rates from 110 through 153．6K；IEEE－488 and RS－422 interfacing optional．Optional Serial Range Extender allows valid RS－232 interchanges for up to 3000 ft ．

Models Available

| 10 KU | 4 Slot Chassis |
| :--- | :--- |
| 10 K 4 TA | 10 Slot Chassis |
| 10 K 1 C | 20 Slot Chassis |
| 10 K 2 C | 20 Slot Chassis w／display |
| $10 \mathrm{KN6}$ | 24 Slot Chassis w／VGA output |
| 10KN7A | 24 Slot Chassis w／integral 9＂TFT display |
| $10 \mathrm{KN} 8 A$ | 8 Slot Chassis w／integral TFT display |
| 10 KN 9 | 16 Slot Chassis w／VGA Output |

## Options

Keypad Displays
12 Channel VFD Display
Additional 24 Slot Levels
Multiple Communication Interface Cards
Bargraph Display Card
Logic Interface Card
＂A＂Conditioning Cards



Models Available

| LVDT | DS Series DSD Series | AC LVDT $0.025^{\prime \prime}$ to $18.5^{\prime \prime}$－Spring Extended，Unguided \＆Guided DC to DC LVDT 0．1＂to 18．5＂－Spring Extended，Unguided \＆Guided |
| :---: | :---: | :---: |
| Load Cell | 400 Series 431M Series 431 Series 434AM Series 434A Series 441 Series | 25 to 5 K Lb ranges，Low Profile 50 to 1 K gram M iniature，male threads 5 to 10K Lbs Miniature，male threads 50 to 1 K gram M iniature ，female threads 5 to 1 K Lbs Miniature ，female threads 5 to 50 K Lb ranges，Pancake style |
| Pressure | $\begin{aligned} & 502 \mathrm{~A} \\ & 512 \\ & 515 \mathrm{~A} \\ & 513 \end{aligned}$ | 1 to 15，000 PSI Precision Gage－Absolute 10 to 10,000 PSI General Purpose Gage－Absolute 300 to 10,000 PSI Low Cost Gage only 0.5 to $10,000 \mathrm{PSI}$ W et／W et Differential |
| Frequency | MP1A | Magnetic Pickup |

## ＂A＂Size Signal Conditioning Cards for System 10 \＆SPS6000 Product Family



Models Available

| 10A9－8C | 8－Channel Thermocouple |
| :--- | :--- |
| 10A10－4 | Quad Isolated Thermocouple |
| 10A11 | Thermocouple Output Processor Card |
| 10A15－8 | 8－Channel Thermistor |
| 10A16－4C | Quad Platinum RTD |
| 10A17－2 | Dual High－Voltage Isolation RTD |
| 10A18－4C | Quad 100－Ohm Platinum Linear RTD |
| 10A30－2C | Dual LVDT |
| 10A35 | Encoder |
| 10A40 | Frequency Input |
| 10A41－2C | Dual Frequency Input |
| 10A60－4C | Quad Voltage |
| 10A61－2 | Dual 4－20 mA Input |


| 10A62－8C | 8－Channel 4－20 mA Input |
| :--- | :--- |
| 10A63－2 | Dual Voltage |
| 10A64－8C | 8－Channel Voltage |
| 10A65－8 | 8－Channel Low－Level Voltage |
| 10A68－2 | Dual AC RMS |
| 10A69－4 | Quad AC RMS |
| 10A73－4 | 4－Channel 1／4 and 1／2 Bridge Strain Gage |
| 10A74－4C | Quad Strain Gage Track－Hold |
| 10A78 | AC Strain Gage |
| AA14－4F010 | Thermocouple |
| AA30－4 | Quad LVDT |
| AA41－4 | Quad Frequency Input |


| AA72－4 | Quad Strain Gage |
| :--- | :--- |
| 10A79－4 | 4－Channel Analog Peak Capture Card |
| 10AAO－4 | 4 Channel Analog Output Buffer Card |
| 10AAO－8 | 8－Channel Voltage Output Card |
| 10ACC－4 | 4－Channel Totalizer Card |
| 10ACT01 | Counter／Timer Card |
| 10AEX－20 | ＂A Card＂Extender Board |
| 10A72－2C | Enhanced Dual Strain Gage |
| 10AFIFO | First－In－First－Out Buffer Memory Card |
| 10AIO－16 | 16 Bit Universal Logic I／0 Card |
| 10APID | Loop Control Card |
| 10AST | Analog Slot Test Card |
| 10AX－2 | Auxiliary Excitation Card |


| Instrument | 5D／3Kplus | 2000 | 3000 | 3700 | 4000 | SPS6000 | SYSTEM 10 | 5M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parameter |  |  |  |  |  |  |  |  |
| 4－20 ma | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| AC Gurrent |  | $\bigcirc$ |  |  |  | $\bigcirc$ | $\bigcirc$ |  |
| AC LVDT | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| AC mv／V Strain Gage | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| AC Voltage |  | O |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| DC mv／V Strain Gage | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| DC Gurrent |  | $\bigcirc$ |  |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| DC Low Level | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| DC Voltage | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| Frequency | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| Quadrature |  | $\bigcirc$ |  |  |  |  | $\bigcirc$ |  |
| RTD |  | $\bigcirc$ |  |  |  | $\bigcirc$ | $\bigcirc$ |  |
| Thermocouple |  | $\bigcirc$ |  |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| Thermistor |  |  |  |  |  |  | $\bigcirc$ |  |

## 0））コニンTアロாIL

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[^0]:    33xx Readout and Limit added to the Conditioner

