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This configuration list contains default configurations for all PR Products.

Series 2000

2220	2222	2224	2229	2231
2255	2261	2281	2289	2914 (5333)

2220

From serial no.	all
Type no.	2220x0
Output	5V

2222

From serial no.	all
Output	24 VDC

2224

From serial no.	all
Valve A	0-99.9%
Valve B	0-99.9%
Output frequency	200 Hz
Ramp	OFF
Dead band	1%
Gain	0.7 Amp
PF	0.15
IF	0.5
Input	4-20 mA

2229

From serial no.	all
Type no.	2229A9
9 = Output	0: Special (5V) 1: 24 VDC 2: 15 VDC 3: 12 VDC 4: 5 VDC

2231**From serial no.****980170001****Relay 1**

Setpoint

10 %

Hysteresis

1.0 %

Relay

N.O. incr.

Delay

0.0 s

Relay 2

Setpoint

90 %

Hysteresis

1.0 %

Relay

N.O. incr.

Delay

0.0 s

Analog input

4.0 - 20.0 mA

Response time

0.2 s

AC/DC

DC

Other

Function

2 (double limit switch)

EFS

(fastset enable)

Password

040 (code enable)

2255**From serial no.****-1: 970419838****-2: 970419851**

Function

001 (f/I converter)

Min. frequency

0 Hz

Max. frequency

100 Hz

Input

NPN

Analog output

Output

4-20mA/0,2-1V

Response time (minimum)

60 ms

Auxiliary voltage

8 VDC ±0.5 VDC

Digital output

Setpoint low

99%

Setpoint high

90%

Hysteresis

1%

Dig. output action

INC

Dig. output function

L (limit)

Other

Frequency filter (high)

1

Password

040 (code enable)

Power up delay

0 s

2261

From serial no.	970332146
Input	5 - 25 mV
Low range cal. value	0%
High range cal. value	100%
Over range	0%
Output	4 - 20 mA
Response time	0.06 s
Tarring function	enabled
Tarring function to	"LO"
Digital input	PNP
Excitation voltage	12.5 Volt
Password	040 (code enable)
Frequency filter	50 Hz

2281

From serial no.	970238192
Power up Reset	0
Reset	0.00%
Pre scale	1
Up low	10 s
Up hi	0 s
Down low	10 s
Down hi	0 s
Output	4 - 20 mA
Over range	OFF
Function	001 (time count)
Filter Low, 50 Hz	1
Password	040 (code enable)

2289**2289A****From serial no.****980161111**

Scale factor input A

0.5

Scale factor input B

0.5

Calculating offset

0.00

Input A

4.0 - 20.0 mA

Input B

4.0 - 20.0 mA

Output

4.0 - 20.0 mA

Function

001 (A + B)

Frequency filter

50 Hz

Display

OUT

Password

040 (code enable)

2289B**From serial no.****980065002**

Scale factor input A

0.5

Scale factor input B

0.5

Calculating offset

0

Input A

0 - 100 °C

Input B

4.0 - 20.0 mA

Output

4.0 - 20.0 mA

Function

001 (A + B)

Frequency filter

50 Hz

Display

OUT

Password

040 (code enable)

2914 (5333)**From serial no.****980292001**

Input

Pt 100, 3-wire

Output

4 - 20 mA

Range

0 - 50°C

Sensor error

23 mA

Response time

1 s

Limits

Max.

Series 3000

3101	3102	3103	3104	3105	3108	3109	3111	3112	3113
3114	3117	3118	3185	3186	3202	3225	3331	3333	3337

3101

From serial no.	100000000
Sensor Type	TC K (int. CJC)
Output Range	4 - 20 mA
Error Detection	Broken Circuit detection
Error Output Current	3.5 mA
Noise Suppression	50 Hz
Input Lower Limit	0 °C
Input Upper Limit	600 °C
Response time	< 30 ms
Configuration Mode	-

3102

From serial no.	100000000
Sensor Type	Pt100, 3 wire
Output Range	4 - 20 mA
Error Detection	Short Circuit detection, Broken Circuit detection
Error Output Current	3.5 mA
Noise Suppression	50 Hz
Input Lower Limit	0 °C
Input Upper Limit	150 °C
Response time	< 30 ms
Configuration Mode	-

3103

From serial no.	100000000
	no configuration

3104

From serial no.	100000000
Input	0 - 20 mA
Output	0 - 20 mA

3105

From serial no.	100000000
Input	0 - 20 mA
Output	0 - 20 mA

3108

From serial no.	100000000
	no configuration

3109

From serial no.	100000000
Input	0 - 20 mA
Output	0 - 20 mA

3111

From serial no.	100000000
Sensor Type	TC K (int. CJC)
Output Range	4 - 20 mA
Error Detection	Broken Circuit detection
Error Output Current	3.5 mA
Noise Suppression	50 Hz
Input Lower Limit	0 °C
Input Upper Limit	600 °C
Response time	< 30 ms
Configuration Mode	-

3112

From serial no.	100000000
Sensor Type	Pt100, 3 wire
Output Range	4 - 20 mA
Error Detection	Short Circuit detection, Broken Circuit detection
Error Output Current	3.5 mA
Noise Suppression	50 Hz
Input Lower Limit	0 °C
Input Upper Limit	150 °C
Response time	< 30 ms
Configuration Mode	-

3113

From serial no.	100000000
Sensor Type	Pt100, 3 wire
Output Range	4 - 20 mA
Error Detection	Short Circuit detection, Broken Circuit detection
Error Output Current	3.5 mA
Noise Suppression	50 Hz
Input Lower Limit	0 °C
Input Upper Limit	150 °C
Response time	< 60 ms
Configuration Mode	DIP-switch configuration

3114**From serial no.** 100000000**Input**

Input type Temp

Voltage input 0-10 V

Current input 4-20 mA

Sensor connection (RTD +res) 3-wire

R input range 0-1000

Temp. unit °C

Temp. type PT

PT type PT100

NI type NI100

TC type K

Display unit °C

Decimal point 000.0

Display low 0.0

Display high 100.0

Output

Output type Current

Voltage output 0-10 V

Current output 4-20 mA

Output limit No

Analog out on error 23 mA

Analog out low 0

Analog out high 150

3114 Advanced

bias 0

LCD contrast 3

LCD light 4

TAG TAGNO

Line 3 function Analog out

Use Calibration No

Use Password No

Calibration Range 0.0 / 100.0

Calibration Point 0.0 / 100.0

3114

Language

UK

3117**From serial no.****100000000**

Input

-10 - +10 V

Output

0 - 20 mA

3118**From serial no.****100000000**

Input

-10 - +10 V

Output

0 - 20 mA

3185**From serial no.****100000000**

A1 & A2

no configuration

3186**From serial no.****100000000**

A1 & A2

no configuration

3202**From serial no.****100000000**

Sensor Type

NAMUR sensor, NPN, Contact with optional Line Fault Detection

Trig Low

1.2 mA

Trig High

2.1 mA

Output

NPN (A1), Relay (A2)

Error Detection

Short Circuit Detection, Open loop Circuit Detection

Response Time

NPN: < 2 ms, Relay: < 20 ms

Configuration Mode

DIP-switch configuration

3225

	3225A	3225B
Input		
IN.TYPE	NPN	NPN
Z.IN	HI.Z	HI.Z
S.SUP	17.0 V	17.0 V
TRIG.LO	1.2 mA	1.2 mA
TRIG.HI	2.1 mA	2.1 mA
TRIG.LO	0.8 V	0.8 V
TRIG.HI	2.0 V	2.0 V
IN.UNIT	Hz	Hz
IN.LO	0	0
IN.HI	100	100
FILTER	OFF	OFF
Display		
UNIT	Hz	Hz
DEC.P	111.1	111.1
DISP.LO	000.0	000.0
DISP.HI	100.0	100.0
DISP.RSP	0	0
Output		
OUT.TY	CURR	CURR
OUT.RSP	0.0 s	0.0 s
POW.DEL	0 s	0 s
OUT.MOD	ACT	ACT
O.RANGE	1-5	1-5
O.RANGE	4-20	4-20
OUT.ERR	UP	UP
O.UNIT	Hz	Hz
OUT.LO	0 Hz	0 Hz
OUT.HI	100 Hz	100 Hz
LO.CUT	0 Hz	0 Hz
PULS.TY	50%DC	50%DC
PULS.TI	5 ms	5 ms
OUT.ERR	YES	YES

3225		
ERR.FRQ	115.0	115.0
CONT.TY	NPN	NPN
HI.LVL	5 V	5 V
Relay		
REL.UNI	%	%
EN.FAST	YES	YES
Relay 1		
R1.FUNC	SETP	SETP
R1.CONT	N.O.	N.O.
R1.SETP	50.0 %	50.0 %
SETP.LO		
SETP.HI	60.0 %	60.0 %
ACT.DIR	INCR	INCR
R1.HYST	1.0 %	1.0 %
ERR.ACT	NONE	NONE
ON.DEL	0 s	0 s
OFF.DEL	0 s	0 s
R1.LATC	NO	NO
Relay 2		
R2.FUNC	SETP	SETP
R2.CONT	N.O.	N.O.
R2.SETP	50.0 %	50.0 %
SETP.LO		
SETP.HI	60.0 %	60.0 %
ACT.DIR	INCR	INCR
R2.HYST	1.0 %	1.0 %
ERR.ACT	NONE	NONE
ON.DEL	0 s	0 s
OFF.DEL	0 s	0 s
R2.LATC	NO	NO
Limits		
ILIM.L	NO	NO
ILIM.H	NO	NO
LIM.LO	0.00 Hz	0.00 Hz

3225		
LIM.HI	110.0 Hz	110.0 Hz
ERR.ANA	UP	UP
ERR.ANA	UP	UP
ERR.FRQ	0.000 Hz	0.000 Hz
ERR.FRQ	115.0 Hz	115.0 Hz
ERR.R1	NONE	NONE
ERR.R1	NONE	NONE
ERR.R2	NONE	NONE
ERR.R2	NONE	NONE
Advanced		
CONTRA	3	3
LIGHT	9	9
TAGNO_	TAGNO	TAGNO
LINE 3	TAG	TAG
ENA.PASS	NO	NO
NEW.PAS	0000	0000
LANGUA	UK	UK
Process Calib		
CAL.LO	0.0 % / 0.0 %	0.0 % / 0.0 %
CAL.HI	100.0 % / 100.0 %	100.0 % / 100.0 %
USE.CAL	NO	NO
Input Function		
I.FUNC	NONE	NONE
SQRT.LO	0.0 %	0.0 %
SQRT.HI	1.0 %	1.0 %
CUT.TYP	ZERO	ZERO
LO.CUT	5.0 %	5.0 %

3331

From serial no.	100000000
Sensor Type	Pt100, 3 wire
Output Range	4 - 20 mA
Error Detection	Short Circuit detection, Broken Circuit detection
Error Output Current	3.5 mA
Noise Suppression	50 Hz
Input Lower Limit	0 °C
Input Upper Limit	150 °C
Response time	< 30 ms
Configuration Mode	-

3333

From serial no.	100000000
Sensor Type	Pt100, 3 wire
Output Range	4 - 20 mA
Error Detection	Short Circuit detection, Broken Circuit detection
Error Output Current	3.5 mA
Noise Suppression	50 Hz
Input Lower Limit	0 °C
Input Upper Limit	150 °C
Response time	< 30 ms
Configuration Mode	-

3337**From serial no.****100000000**

Sensor Type

Pt100, 3 wire

Output Range

4 - 20 mA

Error Detection

Short Circuit detection, Broken Circuit detection

Error Output Current

3.5 mA

Noise Suppression

50 Hz

Input Lower Limit

0 °C

Input Upper Limit

150 °C

Response time

< 60 ms

Configuration Mode

DIP-switch configuration

Series 4000[4104](#)[4114](#)[4116](#)[4131](#)[4179](#)[4179B](#)[4184](#)[4222](#)[4225](#)

4104**Input**

Input type	Current
Voltage Input Range	0-10 V
Current Input Range	4-20 mA

Display

Display unit	mA
Decimal point	00.00
Display low	400
Display high	2000

Output

Output type	Current
Current Output Mode	ACT
Current output Range	4-20 mA
Error Indication Level	UP
Voltage Output Range	0-10V
Output Response Time	0s

4104 Advanced

Calibration Point, Low	0.0,100.0
Calibration Point, High	0.0,100.0
Use Calibration	No
LCD Contrast	3
LCD Backlight	9
Tag Text	TAGNO
Line 3 Function	A.OUT
Password	0
Enable Password Prot.	NO
Language	UK
Output Function	DIR

4114**Input**

Input type	Temp
Voltage input range	0-10 V
Current input range	4-20 mA
Sensor connection (RTD+res)	3-wire
R input range	0-1000
Temp. unit	°C
Temp. type	PT
PT type	PT100
NI type	NI100
TC type	K
CJC	Internal
Display unit	°C
Decimal point	000.0
Display low	0.0
Display high	100.0

Output

Output type	Current
Voltage output	0-10 V
Current output	4-20 mA
Analog out on error	23 mA
Analog out low	0 °C
Analog out high	150 °C

4114 Advanced

LCD Contrast	3
LCD Backlight	9
TAG	TAGNO
Line 3 function	Analog out
Calibration	Disabled
Password	Disabled
Fastset	Disabled
Calibration low	0.0 / 100.0
Calibration high	0.0 / 100.0
Language	UK

4116**Input**

Input type	Temp
------------	------

Voltage input	0-10 V
---------------	--------

Current input	4-20 mA
---------------	---------

Sensor connectio (RTD+res)	3-wire
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R input range	0-1000
---------------	--------

Temp. unit	°C
------------	----

Temp. type	PT
------------	----

PT type	PT100
---------	-------

NI type	NI100
---------	-------

TC type	K
---------	---

CJC	Internal
-----	----------

Display unit	°C
--------------	----

Decimal point	000.0
---------------	-------

Display low	0.0
-------------	-----

Display high	100.0
--------------	-------

Relay unit (non-temp input)	%
-----------------------------	---

Relay 1

Function	Setpoint
----------	----------

Contact	NO
---------	----

Setpoint	50.0
----------	------

Direction	Increasing
-----------	------------

Hysteresis	1.0
------------	-----

Error action	None
--------------	------

Delay time (on/off)	0/0
---------------------	-----

Setpoint low/high	500/600
-------------------	---------

Relay Latch	OFF
-------------	-----

Relay 2

Function	Setpoint
----------	----------

Contact	NO
---------	----

Setpoint	75.0
----------	------

Direction	Increasing
-----------	------------

Hysteresis	1.0
------------	-----

Error action	None
--------------	------

4116

Delay time (on/off)	0/0
---------------------	-----

Setpoint low/high	750/850
-------------------	---------

Relay Latch	OFF
-------------	-----

Output

Output type	Current
-------------	---------

Voltage output	0-10 V
----------------	--------

Current output	4-20 mA
----------------	---------

Analog out on error	23 mA
---------------------	-------

Analog out low	0 °C
----------------	------

Analog out high	150 °C
-----------------	--------

4116 Advanced

LCD Contrast	3
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LCD Baclight	9
--------------	---

TAG	TAGNO
-----	-------

Line 3 function	Analog out
-----------------	------------

Calibration	Disabled
-------------	----------

Password	Disabled
----------	----------

Fastset	Enabled
---------	---------

Calibration low	0.0 / 100.0
-----------------	-------------

Calibration high	0.0 / 100.0
------------------	-------------

Language	UK
----------	----

4131**Input**

Input type	Temp
Voltage input	0-10 V
Current input	4-20 mA
Sensor connection (RTD+res)	3-wire
R input range	0-1000
Temp. unit	°C
Temp. type	PT
PT type	PT100
NI type	NI100
TC type	K
CJC	Internal
Display unit	°C
Decimal point	000.0
Display low	0.0
Display high	100.0
Relay unit (non-temp input)	%

Relay 1

Function	Setpoint
Contact	NO
Setpoint	50.0
Direction	Increasing
Hysteresis	1.0
Error action	None
Delay time (on/off)	0/0
Setpoint low/high	500/600
Relay Latch	OFF

Relay 2

Function	Setpoint
Contact	NO
Setpoint	75.0
Direction	Increasing
Hysteresis	1,0
Error action	None

4131

Delay time (on/off)	0/0
Setpoint low/high	750/850
Relay Latch	OFF

4131 Advanced

LCD Contrast	3
LCD Backlight	9
TAG	TAGNO
Calibration	Disabled
Password	Disabled
Fastset	Enabled
Calibration low	0.0 / 100.0
Calibration high	0.0 / 100.0
Language	UK

4179**Input**

Input type	Volt
Current Input Range	0-5 AAC RMS
Voltage Input Range	0-230 VAC RMS
In Low	0.00
In High	230

Display

Display unit	V RMS
Decimal point	000.0
Display low	0
Display high	2300

Output

Output type	Current
Current Output Mode	ACT
Current output Range	4-20 mA
Voltage Output Range	1-10V
Output Response Time	0 s

Limits

Enable configurable input limit, Low	No
Configurable input limit, Low	0.00
Output Error Indication, Low	UP
Enable configurable input limit, High	No
Configurable input limit, High	230
Output Error Indication, High	UP

4179 Advanced

Calibration Point, Low	0.0,230.0
Calibration Point, High	0.0,230.0
Use Calibration	No
LCD Contrast	3
LCD Backlight	9
Tag Text	TAGNO
Line 3 Function	A.OUT
Password	0
Enable Password Prot.	NO

4179

Language

UK

Output Function

DIR

4179B**Input**

Input type

VOLT

Current Input Range

0-5 AAC RMS

Voltage Input Range

0-230 VAC RMS

In Low

0.00

In High

230

Display

Display unit

V RMS

Decimal point

000.0

Display low

0

Display high

230.0

Output**Relay**

REL.UNI

PERC

EN.FAST

YES

POW.DEL

0

Relay 1

R1.FUNC

SETP

R1.CONT

N.O.

R1.SETP
SETP.LO

50.0 %

SETP.HI

60.0 %

ACT.DIR

INCR

R1.HYST	1.0 %
ON.DEL	0 s
OFF.DEL	0 s
R1.LATC	NO
Relay 2	
R2.FUNC	SETP
R2.CONT	N.O.
R2.SETP SETP.LO	75.0 %
SETP.HI	80.0 %
ACT.DIR	DECR
R2.HYST	1.0 %
ON.DEL	0 s
OFF.DEL	0 s
R2.LATC	NO
Limits	
Enable configurable input limit, Low	NO
Configurable input limit, Low	0.00
ERR.R1	NONE
ERR.R2	NONE
Enable configurable input limit, High	NO
Configurable input limit, High	230
ERR.R1	NONE
ERR.R2	NONE
4179B Advanced	
LCD Contrast	3

LCD Backlight	9
Tag Text	TAGNO
Password	0
Enable Password Prot.	NO
Language	UK
Process Calib	
Calibration Range, Low / High	0.0 / 230.0
Calibration Point, Low / High	0.0 / 230.0
Use Calibration	NO

Input	
Input type	Current
Current Input Range	4-20 mA
Current In Low	4.0 mA
Current In High	20.0 mA
Voltage Input Range	2-10 V
Voltage In Low	2.0 V
Voltage In High	10.0 V
Potmeter In Low	0.0 %
Potmeter In High	100.0 %
Display	
Display unit	mA
Decimal point	00.00
Display low	400
Display high	2000
Output	
Output type	Current
Current Output Mode	Active
Current Output Range	4-20 mA
Voltage Output Mode	Buffered
Buffered Voltage Output Range	± 20 V
Shunted Voltage Output Range	± 10 V
Voltage Out Low	-20.0 V
Voltage Out High	20 V
Current Out Low	4.0 mA
Current Out High	20.0 mA
Output Response Time	0.0 s
Limits	
Enable configurable input limit, Low	No
Configurable input limit, Low	3.6 mA
Output Error Indication, Low	UP
Enable configurable input limit, High	No
Configurable input limit, High	21.0 mA
Output Error Indication, High	UP

4184 Advanced

Calibration Point, Low	4.0, 20.0
Calibration Point, High	4.0, 20.0
Use Calibration	No
LCD Contrast	3
LCD Backlight	9
Tag Text	TAGNO
Line 3 Function	Analog Output
Password	0
Enable Password Prot.	NO
Language	UK
Output Function	Direct
Input Function	Linear
Square Root Min	0.0 %
Square Root max	100.0 %
Square Root Low Cut Off type	OFF
Square Root Low Cut Off Point	0.5 %

4222**Input**

Input type	Curr
Voltage input	0-10 V
Current input	4-20 mA
Sensor connection (RTD+res)	3-wire
R input range	0-5 K
Temp. unit	°C
Temp. type	PT
PT type	PT100
NI type	NI100
TC type	K
Display unit	%
Decimal point	000.0
Display low	0
Display high	100.0

Output

Output unit	Hz
Output at 0%	0 Hz
Output at 100%	1000 Hz
Cut off	0 Hz
Output type	50% dc
Pulse time	20 ms
Error indication on output	No
Output frequency at error	1050
Response time	0.4 s
Frequency out low	0 °C
Frequency out high	150 °C

4222 Advanced

LCD Contrast	3
LCD Backlight	9
TAG	TAGNO
Line 3 function	Frequency out
Calibration	Disabled
Password	Disabled

4222

Calibration low

0.0 / 100.0

Calibration high

0.0 / 100.0

Language

UK

4225

	4225A	4225B	4225C
Input			
IN.TYPE	NPN	NPN	NPN
Z.IN	HI.Z	HI.Z	HI.Z
S.SUP	17.0 V	17.0 V	17.0 V
TRIG.LO	1.2 mA	1.2 mA	1.2 mA
TRIG.HI	2.1 mA	2.1mA	2.1 mA
TRIG.LO	0.8 V	0.8 V	0.8 V
TRIG.HI	2.0 V	2.0 V	2.0 V
IN.UNIT	Hz	Hz	Hz
IN.LO	0	0	0
IN.HI	100	100	100
FILTER	OFF	OFF	OFF
Display			
UNIT	Hz	Hz	Hz
DEC.P	111.1	111.1	111.1
DISP.LO	000.0	000.0	000.0
DISP.HI	100.0	100.0	100.0
DISP.RSP	0	0	0
Output			
OUT.TY	CURR	CURR	CURR
OUT.RSP	0.0 s	0.0 s	0.0 s
POW.DEL	0 s	0 s	0 s
OUT.MOD	ACT	ACT	ACT
O.RANGE	1-5	1-5	1-5
O.RANGE	4-20	4-20	4-20
OUT.ERR	UP	UP	UP
O.UNIT	Hz	Hz	Hz
OUT.LO	0 Hz	0 Hz	0 Hz
OUT.HI	100 Hz	100 Hz	100 Hz
LO.CUT	0 Hz	0 Hz	0 Hz
PULS.TY	50%DC	50%DC	50%DC
PULS.TI	5 ms	5 ms	5 ms
OUT.ERR	YES	YES	YES

4225			
ERR.FRQ	115.0	115.0	115.0
CONT.TY	NPN	NPN	NPN
HI.LVL	5 V	5 V	5 V
Relay			
REL.UNI	%	%	%
EN.FAST	YES	YES	YES
Relay 1			
R1.FUNC	SETP	SETP	SETP
R1.CONT	N.O.	N.O.	N.O.
R1.SETP SETP.LO	50.0 %	50.0 %	50.0 %
SETP.HI	60.0 %	60.0 %	60.0 %
ACT.DIR	INCR	INCR	INCR
R1.HYST	1.0 %	1.0 %	1.0 %
ERR.ACT	NONE	NONE	NONE
ON.DEL	0 s	0 s	0 s
OFF.DEL	0 s	0 s	0 s
R1.LATC	NO	NO	NO
Relay 2			
R2.FUNC	SETP	SETP	SETP
R2.CONT	N.O.	N.O.	N.O.
R2.SETP SETP.LO	50.0 %	75.0 %	50.0 %
SETP.HI	60.0 %	80.0 %	60.0 %
ACT.DIR	INCR	DECR	INCR
R2.HYST	1.0 %	1.0 %	1.0 %
ERR.ACT	NONE	NONE	NONE
ON.DEL	0 s	0 s	0 s
OFF.DEL	0 s	0 s	0 s
R2.LATC	NO	NO	NO
Limits			
ILIM.L	NO	NO	NO
ILIM.H	NO	NO	NO
LIM.LO	0.00 Hz	0.00 Hz	0.00 Hz

4225			
LIM.HI	110.0 Hz	110.0 Hz	110.0 Hz
ERR.ANA	UP	UP	UP
ERR.ANA	UP	UP	UP
ERR.FRQ	0.000 Hz	0.000 Hz	0.000 Hz
ERR.FRQ	115.0 Hz	115.0 Hz	115.0 Hz
ERR.R1	NONE	NONE	NONE
ERR.R1	NONE	NONE	NONE
ERR.R2	NONE	NONE	NONE
ERR.R2	NONE	NONE	NONE
Advanced			
CONTRA	3	3	3
LIGHT	9	9	9
TAGNO_	TAGNO	TAGNO	TAGNO
LINE 3	Output value	Output value	Output value
ENA.PASS	NO	NO	NO
NEW.PAS	0000	0000	0000
LANGUA	UK	UK	UK
Process Calib			
CAL.LO	0.0 % / 0.0 %	0.0 % / 0.0 %	0.0 % / 0.0 %
CAL.HI	100.0 % / 100.0 %	100.0 % / 100.0 %	100.0 % / 100.0 %
USE.CAL	NO	NO	NO
Input Function			
I.FUNC	NONE	NONE	NONE
SQRT.LO	0.0 %	0.0 %	0.0 %
SQRT.HI	1.0 %	1.0 %	1.0 %
CUT.TYP	ZERO	ZERO	ZERO
LO.CUT	5.0 %	5.0 %	5.0 %



Series 5000

5102	5104	5105	5106	5114	5115	5116	5131	5202	5203
5223	5225	5331	5332	5333	5334	5335	5337	5343	
5437X1	5437X2	5450		5531	5714	5715	5715D-SW	5725	5802

5102

From serial no.	1 ch: 960192001 2 ch: 960193001
Input	Pt 100, 3-wire
Range	0 - 150°C
Response time	165 ms
Linearized	Yes
Max. cable resistance/conductor	10 Ω
Output	4 - 20 mA
Limit	Max. 2.9 - 20.9
Sensor error	Output to max.

5104

From serial no.	1 ch: 990245001 2 ch: 990248001
Channel 1+2	
DIP default	
Input	4 – 20 mA
Output	4 – 20 mA
Preset download	
Input	4 – 20 mA
Output	20 – 4 mA
5104 ASTRA (former 5104ACDS)	
From serial no.	1 ch: 990245001 2 ch: 990248001
Channel 1	
DIP default	
Input	4– 20 mA
DIP2 Switch 1&2	OFF
Output	1 - 5 V
Preset download	
Input	4 – 20 mA
Output	20 – 4 mA

5105**From serial no.****1 ch: 990246001****2 ch: 990288001****Channel 1+2**

DIP default

Input

4 – 20 mA

Output

4 – 20 mA

Preset download

Input

4 – 20 mA

Output

20 – 4 mA

5106**From serial no.****1 ch: 010083001****2 ch: 010171001****Channel 1+2**

Input

4 – 20 mA

Output

4 – 20 mA

5114**5114A**

From serial no.	1 ch: 990061001 2 ch: 990062001
Input	Pt 100, 3-wire
Range	0 –150 °C
Response time	0.4 s
Max cable res./cond.	10 Ω
Output	4 – 20 mA
Limits	NAMUR NE43 (3.8 - 20.5 mA)
Sensor error	NAMUR NE43 upscale (23 mA)

5114B1

From serial no.	1 ch: 990061001 2 ch: 990062001
Channel 1+2	
Input	Pt 100, 3-wire
Range	0 –150 °C
Response time	0.4 s
Max cable res./cond.	10 Ω
Output	4 – 20 mA
Limits	NAMUR NE43 (3.8 - 20.5 mA)
Sensor error	NAMUR NE43 upscale (23 mA)

5114B2

From serial no.	1 ch: 990061001 2 ch: 990062001
Channel 1+2	
Input	Current
Range	4 – 20 mA
Auxiliary voltage	Loop supply
Response time	0.25 s
Output	4 – 20 mA
Limits	NAMUR NE43 (3.8 - 20.5 mA)

5114B3B

From serial no.	990062001
Channel 1	

5114

Input	Pt 100, 3-wire
Range	0 – 150 °C
Response time	0.4 s
Max cable res./cond.	10 Ω
Output	4 – 20 mA
Limits	NAMUR NE43 (3.8 - 20.5 mA)
Sensor error	NAMUR NE43 upscale (23 mA)
Channel 2	
Input	Current
Range	4 – 20 mA
Auxiliary voltage	Loop supply
Response time	0.25 s
Output	4 – 20 mA
Limits	NAMUR NE43 (3.8 - 20.5 mA)

5115**5115A**

From serial no.	000313001
Input	
Input 1 and input 2	1 x Pt100, 3-wire
Range	0 – 150°C
Max. cable res./ cond.	10 Ω
Output 1	
Function	Add (I1 + I2); K1 = 0.5; K2 = 0.5; K4 = 0
Output	4 – 20 mA
Limits	NAMUR NE 43 (3.8 – 20.5 mA)
Sensor Error Action	NAMUR NE 43 upscale (23 mA)
Detect	Error on Input 1 or Input 2
Response time	0.4 s
Output 2	
Function	Add (I1 + I2); K1 = 0.5; K2 = 0.5; K4 = 0
Output	4 – 20 mA
Limits	NAMUR NE 43 (3.8 – 20.5 mA)
Sensor Error Action	NAMUR NE 43 upscale (23 mA)

5115

Detect	Error on Input 1 or Input 2
Response time	0.4 s

5115B1

From serial no.	000313001
Input	
Input 1 and input 2	1 x Pt100, 3-wire
Range	0 – 150°C
Max. cable res. / cond.	10 Ω
Output 1	
Function	Add (I1 + I2); K1 = 0.5; K2 = 0.5; K4 = 0
Output	4 – 20 mA
Limits	NAMUR NE 43 (3.8 – 20.5 mA)
Sensor Error Action	NAMUR NE 43 upscale (23 mA)
Detect	Error on Input 1 or Input 2
Response time	0.4 s
Output 2	
Function	Add (I1 + I2); K1 = 0.5; K2 = 0.5; K4 = 0
Output	4 – 20 mA
Limits	NAMUR NE 43 (3.8 – 20.5 mA)
Sensor Error Action	NAMUR NE 43 upscale (23 mA)
Detect	Error on Input 1 or Input 2
Response time	0.4 s

5115B2

From serial no.	000313001
Input	
Input 1 and input 2	Current
Range	4 – 20 mA
Auxiliary voltage	Loop supply
Output 1	
Function	Add (I1 + I2); K1 = 0.5; K2 = 0.5; K4 = 0
Output	4 – 20 mA
Limits	NAMUR NE 43 (3.8 – 20.5 mA)
Response time	0.25 s
Output 2	

5115

Function	Add (I1 + I2); K1 = 0.5; K2 = 0.5; K4 = 0
Output	4 – 20 mA
Limits	NAMUR NE 43 (3.8 – 20.5 mA)
Response time	0.25 s

5115B3

From serial no. **000313001**

Input

Input 1	1 x Pt100, 3-wire
Range	0 – 150°C
Max. cable res. / cond.	10 Ω
Input 2	Current
Range	4 – 20 mA
Auxiliary voltage	Loop supply

Output 1

Function	Add (I1 + I2); K1 = 0.5; K2 = 0.5; K4 = 0
Output	4 – 20 mA
Limits	NAMUR NE 43 (3.8 – 20.5 mA)
Sensor Error Action	NAMUR NE 43 upscale (23 mA)
Detect	Error on Input 1
Response time	0.4 s

Output 2

Function	Add (I1 + I2); K1 = 0.5; K2 = 0.5; K4 = 0
Output	4 – 20 mA
Limits	NAMUR NE 43 (3.8 – 20.5 mA)
Sensor Error Action	NAMUR NE 43 upscale (23 mA)
Detect	Error on Input 1
Response time	0.4 s

5116

From serial no. **040601001**

Input

Input	Pt 100, 3-wire
Range	0 –150 °C
Response time	0.4 s

5116

Max. cable res. / cond.	10 Ω
Output	4 – 20 mA
Limits	NAMUR NE43 (3.8 - 20.5 mA)
Sensor error	NAMUR NE43 upscale (23 mA)
Relay 1	
Units	% of Input Span
Type	Setpoint
Setpoint	50%
Hysteresis	1%
On Delay	0 s
Off Delay	0 s
Action	Increasing
Contact	Normally Open
Sensor error action	Off
Relay 2	
Units	% of Input Span
Type	Setpoint
Setpoint	75%
Hysteresis	1%
On Delay	0 s
Off Delay	0 s
Action	Increasing
Contact	Normally Open
Sensor error action	Off

5131**5131A**

From serial no.	1 ch: 990063001 2 ch: 990064001
Input	Pt100, 3-wire
Range	0 – 150 °C
Response time	0.4 s
Max. cable res. / cond.	10 Ω
Output	4 – 20 mA

5131

Limits	NAMUR NE43 (3.8 – 20.5 mA)
Sensor error	NAMUR NE43 upscale (23 mA)

5131B1

From serial no.	1 ch: 990063001 2 ch: 990064001
Input	Pt100, 3-wire
Range	0 – 150 °C
Response time	0.4 s
Max. cable res. / cond.	10 Ω
Output	4 – 20 mA
Limits	NAMUR NE43 (3.8 – 20.5 mA)
Sensor error	NAMUR NE43 upscale (23 mA)

5131B2

From serial no.	1 ch: 990063001 2 ch: 990064001
Input	Current
Range	4 – 20 mA
Response time	0.25 s
Output	4 – 20 mA
Limits	NAMUrNE43 (3.8 - 20.5 mA)

5131B3B

From serial no.	990064001
Channel 1	
Input	Pt100, 3-wire
Range	0 – 150 °C
Response time	0.4 s
Max. cable res. / cond.	10 Ω
Output	4 – 20 mA
Limits	NAMUR NE43 (3.8 – 20.5 mA)
Sensor error	NAMUR NE43 upscale (23 mA)
Channel 2	
Input	Current
Range	4 – 20 mA
Response time	0.25 s

5131

Output	4 – 20 mA
Limits	NAMUR NE43 (3.8 - 20.5 mA)

5202

From serial no.	960484001
Ch 1 & 2	Direct to output
Cable error detection Ch1 & 2	OFF

5202B

From serial no.	000111001
Channel 1 & 2	Direct to output
Cable error detection Channel 1 & 2	OFF
Ch 1 error to ch 2	Disabled

Jumpers

JP11	pos. 1&2
JP12	pos. 2&3
JP13	pos. 1&2
JP21	pos. 1&2
JP22	pos. 2&3
JP23	pos. 2&3

5202B4

From serial no.	020252001
Channel 1 & 2	Direct to output
Cable error detection Channel 1 & 2	OFF
Ch 1 error to ch 2	Disabled

Jumpers

JP11	pos. 1&2
JP12	pos. 2&3
JP13	pos. 1&2
JP21	pos. 1&2
JP22	pos. 2&3
JP23	pos. 2&3
JP41	pos. N.O.
JP42	pos. N.O.
JP51	pos. N.O.

5202

JP52

pos. N.O.

5203**5203B****From serial no.****990300001**

Input

NPN

Output

Direct

DIP-switches

DP1, DP2 (1,2,3,4)

ON, OFF, ON, OFF

5223**5223A****From serial no.****970148258**

Function

f/I converter frequency

Input (Dig. input A)

NPN

Sensor supply

17 VDC (default)

Filter

None

Min. frequency

0 Hz

Max. frequency

100 Hz

Output

4 - 20 mA

Response time

60 ms

Digital output 1

Action

decr.

Setpoint 1

50 Hz

Hysteresis

1 Hz

Power on delay

0 s

Output action

NPN/Relay N.O.

Digital output 2

Action

incr.

Setpoint 2

50 Hz

Hysteresis

1 Hz

Dig. output function

NPN/Relay N.O.

Sensor error LED

off

5223B

From serial no.

960451067

5223

Function	f/I converter frequency
Input (Dig. input A)	NAMUR
Sensor supply	8.3 VDC
Filter	None
Min. frequency	0 Hz
Max. frequency	10 Hz
Output	4 - 20 mA
Response time	60 ms
Digital output 1	
Action	incr.
Setpoint 1	5 Hz
Hysteresis	0.005 Hz
Power on delay	0 s
Output action	NPN/Relay N.O.
Digital output 2	
Action	incr.
Setpoint 2	5 Hz
Hysteresis	0.005 Hz
Dig output function	NPN/Relay N.O.
Sensor error LED	off

5225**5225A1**

From serial no.	Type 1: 970297103 Type 2: 970297080
Function	f/I converter
Digital input	
Sensor type	NPN
Min. frequency	0 Hz
Max. frequency	100 Hz
Filter	None
Sensor supply	17 VDC (default)
Analog output	
Output	4 - 20 mA

5225

Response time	60 ms
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Digital output 1

Action	increasing
--------	------------

Setpoint 1	50 Hz
------------	-------

Hysteresis	1 Hz
------------	------

Output	NPN / Relay N.O.
--------	------------------

ON Delay	0 s
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Power on delay	0 s
----------------	-----

Digital output 2

Action	none
--------	------

5225A2

From serial no.	Type 1: 970297103
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Type 2: 970297080

Function	f/I converter
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Digital input

Sensor type	NPN
-------------	-----

Min. frequency	0 Hz
----------------	------

Max. frequency	100 Hz
----------------	--------

Filter	None
--------	------

Sensor supply	17 VDC (default)
---------------	------------------

Analog output

Output	4 - 20 mA
--------	-----------

Response time	60 ms
---------------	-------

Digital output 1

Action	increasing
--------	------------

Setpoint 1	50 Hz
------------	-------

Hysteresis	0,5 Hz
------------	--------

Output	PNP / Relay N.C.
--------	------------------

ON Delay	0 s
----------	-----

Power on delay	0 s
----------------	-----

Digital output 2

Action	increasing
--------	------------

Setpoint 1	50 Hz
------------	-------

Hysteresis	0.5 Hz
------------	--------

5225

Output	NPN / Relay N.O.
OFF Delay	0 s
Power on delay	0 s

5331

From serial no.	type A: 990303001 type B: 990307193
Input	Pt 100, 3-wire
Range	0 - 150°C
Response time	1 s
Output	4 - 20 mA
Sensor error action	NAMUR NE43 upscale
Limits	Max, (3.5 – 23 mA)

5332

From serial no.	all
Input	Pt 100, 3-wire
Range	0 – 150 °C
Response time	1 s
Output	4 - 20 mA
Sensor error action	NAMUR NE43 upscale
Limits	NAMUR NE43

5333

From serial no.	990318747
Input	Pt 100, 3-wire
Range	0 - 150°C
Response time	1 s
Output	4 - 20 mA
Sensor error action	NAMUR NE43 upscale
Limits	Max. (3,5 - 23mA)

5334

From serial no.	990308727
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5334

Input	TC, type K
Range	0 – 600 °C
CJC	Internal
CJC range	-40 – 100 °C
Response time	1 s
Output	4 - 20 mA
Sensor error action	NAMUR NE43 upscale
Limits	NAMUR NE43

5335

From serial no.	970904001
Input	Pt 100, 3-wire
Range	0 - 150°C
Max. cable resistance	2,5 Ω per conductor (5 Ω total in two wires)
Response time	1 s
Output	4 - 20 mA
Output limit	NAMUR NE43 (3.8-20.5 mA)
Sensor error action (shorted)	OFF
Sensor error action (broken)	OFF

5337

From serial no.	970904001
Input	Pt 100, 3-wire
Range	0 - 150°C
Max. cable resistance	2.5 Ω per conductor (5 Ω total in two wires)
Response time	1 s
Output	4 - 20 mA
Output limit	NAMUR NE43 (3.8-20.5 mA)
Sensor error action (shorted)	OFF
Sensor error action (broken)	OFF

5343

From serial no.	000071001
Input	Potentiometer
Input type	Potentiometer > 5,6 kΩ

5343

Range	0 - 100%
Placement cal.	Electrical cal. 0 - 100%
Response time	0.33 s
Sensor error	shorted/broken
Output	4 - 20 mA
Output limits	span
Sensor error action	NAMUR downscale

5343 Advanced Sensor Error Configuration

Nominal Resistance	5600 Ω
Wiper Connection Broken	Active
Max. Resistance Deviation Increase	10%
Max. Resistance Deviation Decrease	10%

5437A1; 5437B1; 5437D1

From product version	01.02.00
Input	Pt100, 3-wire
Input response time	0 s
PV Mapped To	Input 1
SV Mapped To	Input 1
TV Mapped To	Input 1
QV Mapped To	Electronics Temperature
PV Range	0 - 150 °C
Electronics temperature response time	0 s
Electronics temperature units	°C
Output	4 - 20 mA
Output limits	NAMUR NE43 (3,8-20,5 mA)
Input limits	-20...170°C
Input limit check	Disabled
Output limit check	Disabled
Sensor error detection	Broken And Shorted
Sensor error action (shorted)	3.5 mA
Sensor error action (broken)	23 mA
Mains frequency filter	50 Hz
Tag	?

5437A1; 5437B1; 5437D1

Long tag	?
Polling Address	0
Loop Current mode	Enabled
Write protection	Disabled
Write protection password	*****

5437A2; 5437B2; 5437D2

From product version	01.02.00
Input 1	Pt100, 3-wire
Input 1 response time	0 s
Input 2	None
PV Mapped To	Input 1
SV Mapped To	Input 1
TV Mapped To	Input 1
QV Mapped To	Electronics Temperature
PV Range	0 - 150 °C
Electronics temperature response time	0 s
Electronics temperature units	°C
Output	4 - 20 mA
Output limits	NAMUR NE43 (3,8-20,5 mA)
Input limits	-20..170°C
Input limit check	Disabled
Output limit check	Disabled
Sensor error detection	Broken And Shorted
Sensor error action (shorted)	3.5 mA
Sensor error action (broken)	23 mA
Mains frequency filter	50 Hz
Tag	?
Long tag	?
Polling Address	0
Loop Current mode	Enabled
Write protection	Disabled
Write protection password	*****

5450

Main frequency filter	50Hz
Input 1	RTD pt100 – IEC751
Input 2	None
Units	°C
Wiring configuration	3-wire
Sensor limit	-200 ... 850
Damping value input	0.0
Damping value Cold Junction Compensation (CJC)	0.0
Damping value Electronics temperature	0.0
Rang check mode	Disabled
Alarm limit input	-20.00 ... 170.00
Error detection mode	Broken and shorted
Suppression time	0
CJC type	Internal RTD
Slave address	126
Parameter change acknowledge mode	Auto-acknowledge after 20 seconds
Button lock	Disabled
HW lock	Disabled
User PIN	Disabled

5531

From serial no.	960311324
Input	4 - 20 mA
Display scale	0 - 99.99
Front programming enable	Yes

5531

Intensity

Full

5714**From serial no.****040189001****Input parameter**

Input type

Current

Input range

4 - 20 mA

Voltage range

0-10V

Temperature type

PT

PT type

PT100

NI type

NI100

TC type

TC-K

Connection type

3-Wire

Temperature Unit

Celcius

Potmeterlimit Lo

0.0%

Potmeterlimit Hi

100.0%

Decimal point

111.1

Display Low

0.0

Display High

100.0

Relay parameter

Relay Units

%

Relay 1(+3)

Function

Setpoint

Setpoint

50.0%

Activation Direction

Decrease

Hysteresis

1.0

Error

Hold

ON delay

0 s

OFF delay

0 s

Relay 2(+4)

Function

Setpoint

Setpoint

75.0%

Activation Direction

Increase

Hysteresis

1.0

5714

Error	Hold
ON delay	0 s
OFF delay	0 s
Output parameter	
Output Range	4-20 mA
Aout Lo	N.A.
Aout Hi	N.A.
Output Error	3,5 mA
Response time	0,4 s
Other	
Password	0
Enable Password	NO
Language	English
Custom lin enabled	NO
Use Damped Display Intensity	NO
Damped Display Intensity	3

5715

From serial no.	060389001
Input parameter	
Input type	Current
Input range	4 - 20 mA
Voltage range	0-10V
Temperature type	PT
PT type	PT100
NI type	NI100
TC type	TC-K
Connection type	3-Wire
Temperature Unit	Celcius
Potmeterlimit Lo	0.0%
Potmeterlimit Hi	100.0%
Decimal point	111.1
Display Low	0.0
Display High	100.0

5715**Relay parameter**

Relay Units %

Relay 1(+3)

Function Setpoint

Setpoint 50.0%

Activation Direction Decrease

Hysteresis 1.0

Error Hold

ON delay 0 s

OFF delay 0 s

Relay 2(+4)

Function Setpoint

Setpoint 75.0%

Activation Direction Increase

Hysteresis 1.0

Error Hold

ON delay 0 s

OFF delay 0 s

Output parameter

Output Range 4-20 mA

Aout Lo N.A.

Aout Hi N.A.

Output Error 3,5 mA

Response time 0.4 s

Other

Password 0

Enable Password NO

Language English

Custom lin enabled NO

Use Damped Display Intensity NO

Damped Display Intensity 3

5715D-SW

From serial no. all

Input parameter	
Input type	Current with square root
Input range	4 - 20 mA
Temperature type	PT
PT type	PT100
NI type	NI100
TC type	TC-K
Connection type	3-Wire
Temperature Unit	Celcius
Decimal point	111.1
Display Low	0.0
Display High	100.0
Relay parameter	
Relay Units	%
Relay 1(+3)	
Function	Setpoint
Setpoint	50.0%
Activation Direction	Decrease
Hysteresis	1.0
Error	Hold
ON delay	0 s
OFF delay	0 s
Relay 2(+4)	
Function	Setpoint
Setpoint	75.0%
Activation Direction	Increase
Hysteresis	1.0
Error	Hold
ON delay	0 s
OFF delay	0 s
Output parameter	
Output Range	4-20 mA
Aout Lo	N.A.
Aout Hi	N.A.
Output Error	3,5 mA

Response time	0,4 s
Other	
Password	0
Enable Password	NO
Language	English
Use Damped Display Intensity	NO
Damped Display Intensity	3

5725

5725A

From serial no.	181101000
Input	
Sensor type	NPN
TrigLo	4.0 V
TrigHi	7.0 V
Z.IN	Hi.Z
Sensor supply	17.0 V
Input Unit	Hz
Frequency Range	0-100 Hz
50 Hz low pass filter	OFF
Decimal point	111.1
Display Lo	0.0
Display Hi	100.0
Display Response Time	0 s
Misc.	
Password	0
Enable password	NO
Language	UK

5725D

From serial no.	181101000
Input	
Sensor type	NPN
TrigLo	4.0 V
TrigHi	7.0 V
Z.IN	Hi.Z
Sensor supply	17.0 V

5725

Input Unit	Hz
Frequency Range	0-100 Hz
50 Hz low pass filter	OFF
Decimal point	111.1
Display Lo	0.0
Display Hi	100.0
Display Response Time	0 s
Relay units	Percentage

Relay 1

Function	Setpoint
Setpoint	50.0%
Activation Direction	Decreasing
Hysteresis	1.0%
Error action	Hold
ON delay	0 s
OFF delay	0 s

Relay 2

Function	Setpoint
Setpoint	75.0%
Activation Direction	Increasing
Hysteresis	1.0%
Error action	Hold
ON delay	0 s
OFF delay	0 s

Relay 1+2

Power On Delay	0 s
----------------	-----

Analog output

Output Range	4-20 mA
Output error	3.5 mA
Response time	0.1 s

Misc.

Password	0
Enable password	NO
Language	UK

5802**From serial no.**

All

Input

Pt 100, 3-wire

Range

0 - 150°C

Response time

1 s

Output

4 - 20 mA

Sensor error action

NAMUR NE43 upscale

Limits

Max. (3.5 – 23 mA)

Series 6000[6331](#)[6333](#)[6334](#)[6335](#)[6337](#)[6437X1](#)[6437X2](#)**6331****From serial no.****1 ch: 000032001****2 ch: 000033001****Channel 1+2**

Input

Pt 100, 3-wire

Range

0 - 150°C

Response time

1 s

Output

4 - 20 mA

Sensor error action

NAMUR NE43 upscale

Limits

Max. (3.5 – 23 mA)

6333

From serial no.	1 ch: 000034001 2 ch: 000035001
Channel 1+2	
Input	Pt 100, 3-wire
Range	0 - 150°C
Response time	1 s
Output	4 - 20 mA
Sensor error action	NAMUR NE43 upscale
Limits	Max. (3.5 – 23 mA)

6334

From serial no.	1 ch: 000036001 2 ch: 000037001
Channel 1+2	
Input	TC, type K
Range	0 – 600 °C
CJC	Internal
CJC-range	-20 – 85 °C
Response time	1 s
Output	4 - 20 mA
Sensor error action	NAMUR NE43 upscale
Limits	NAMUR NE43

6335

From serial no.	1 ch: 000926001 2 ch: 000925001
Channel 1+2	
Input	Pt 100, 3-wire
Range	0 - 150°C
Max. cable resistance	2.5 Ω per conductor (5 Ω total in two wires)
Response time	1 s
Output	4 - 20 mA
Output limits	NAMUR NE43
Sensor error action (shorted)	OFF
Sensor error action (broken)	OFF

6337

From serial no.	1 ch: 000926001 2 ch: 000925001
Channel 1+2	
Input	Pt 100, 3-wire
Range	0 - 150°C
Max. cable resistance	2.5 Ω per conductor (5 Ω total in two wires)
Response time	1 s
Output	4 - 20 mA
Output limits	3,8-20,5 mA
Sensor error action (shorted)	OFF
Sensor error action (broken)	OFF

6437A1; 6437D1

From product version	01.02.00
Input	Pt100, 3-wire
Input response time	0 s
PV Mapped To	Input 1
SV Mapped To	Input 1
TV Mapped To	Input 1
QV Mapped To	Electronics Temperature

6437A1; 6437D1

PV Range	0 - 150 °C
Electronics temperature response time	0 s
Electronics temperature units	°C
Output	4 - 20 mA
Output limits	NAMUR NE43 (3,8-20,5 mA)
Input limits	-20...170°C
Input limit check	Disabled
Output limit check	Disabled
Sensor error detection	Broken And Shorted
Sensor error action (shorted)	3.5 mA
Sensor error action (broken)	23 mA
Mains frequency filter	50 Hz
Tag	?
Long tag	?
Polling Address	0
Loop Current mode	Enabled
Write protection	Disabled
Write protection password	*****

6437A2; 6437D2

From product version	01.02.00
Input 1	Pt100, 3-wire
Input 1 response time	0 s
Input 2	None
PV Mapped To	Input 1
SV Mapped To	Input 1
TV Mapped To	Input 1
QV Mapped To	Electronics Temperature
PV Range	0 - 150 °C
Electronics temperature response time	0 s
Electronics temperature units	°C
Output	4 - 20 mA
Output limits	NAMUR NE43 (3,8-20,5 mA)
Input limits	-20..170°C

6437A2; 6437D2

Input limit check	Disabled
Output limit check	Disabled
Sensor error detection	Broken And Shorted
Sensor error action (shorted)	3.5 mA
Sensor error action (broken)	23 mA
Mains frequency filter	50 Hz
Tag	?
Long tag	?
Polling Address	0
Loop Current mode	Enabled
Write protection	Disabled
Write protection password	*****

Series 7000**7501**

Input	Pt 100, 3-wire
Range	0 - 150°C
Max. cable resistance	2.5 Ω per conductor (5 Ω total in two wires)
Response time	1 s
Output	4 - 20 mA
Output limit	NAMUR NE43 (3.8-20.5 mA)
Sensor error action (shorted)	OFF
Sensor error action (broken)	OFF
Bargraph	% of Range
Contrast	5
Backlight	OFF
Language	UK
Monitor Value	Sensor 1
Display Scaling	NO
Display Unit	%
Decimal Point	XXX.XX
Display Low	0.00
Display High	100.00

Series 9000

9106	9107	9113	9116	
9202	9203			

9106	
Type no.	9106B1A 9106B2A
Input Parameters	
loop1LimitLo [0.1 mA]	38
loop1LimitHi [0.1 mA]	205
loop2LimitLo	38
loop2LimitHi	205
Advanced Parameters	
enableRailErr	YES
contrast	3
backlight	9
tagtext1[0-5]	"TAGNO"
tagtext2[0-5]	"TAGNO"
lineFunction	LOOP
enablePass	NO
password	0
language	UK

9107**Type no.****9107BA****Input Parameters**

loop1LimitLo [0,1 mA]

38

loop1LimitHi [0,1 mA]

205

loop2LimitLo

38

loop2LimitHi

205

Advanced Parameters

enableRailErr

YES

contrast

3

backlight

9

tagtext1[0-5]

"TAGNO"

tagtext2[0-5]

"TAGNO"

lineFunction

LOOP

enablePass

NO

password

0

language

UK

9113**Type no.****9113BA****9113BB****9113BA-XB****9113BB-XB****Channel 1+2*****Input Parameters***

Input type

TEMP

Current range

CR4_20

Connection type

C_3W

Temperature unit

U_CELS

Temperature sensor type

PT

Pt type

PT100

Ni type

NI100

TC type

TC_K

CJC type

INT

Fixed voltage input range

VR0_10

Linear resistor range, low [Ω]

0

Linear resistor range, high [Ω]

1000

Output Parameters

Output current range

CR4_20

Output current on error

AO_23MA

Temperature for output, low [1/10°C]

0

Temperature for output, high [1/10°C]

1500

Analog output response time [1/10 s]

0

Stored calibration range [input unit]

{0.0; 100.0}

Calibration points

{0.0; 100.0}

Calibration enable/disable

NO

Advanced Parameters

Password

0

LCD contrast

3

LCD backlight

9

TAG ch1

"TAGNO"

TAG ch2 (only 9113BB)

"TAGNO"

Line function

A_IN

9113

Enable password	NO
Enable relay fast set	NO
Language	UK
Enable rail status signal	YES
Enable SIL configuration	NO

9116**Type no.****9116B1****9116B2****Channel 1+2*****Input Parameters***

Input type

TEMP

Current range

CR4_20

Connection type

C_3W

Temperature unit

U_CELS

Temperature sensor type

PT

Pt type

PT100

Ni type

NI100

TC type

TC_K

CJC type

INT

Fixed voltage input range

VR0_10

Linear resistor range, low [Ω]

0

Linear resistor range, high [Ω]

1000

Display Parameters

Process unit selection

U_CELS

Decimal point location selection

XXX_X

Display range, low [display unit]

0

Display range, high [display unit]

1000

Output Parameters

Output current range

CR4_20

Output current on error

AO_23MA

Temperature for output, low [1/10°C]

0

Temperature for output, high [1/10°C]

1500

Analog output response time [1/10 s]

0

Stored calibration range [input unit]

{0.0; 100.0}

Calibration points

{0.0; 100.0}

Calibration enable/disable

NO

Relay Parameters

Unit for setpoint (non-temperature)

DISP_UN

Function

SETP

Contact function

N_O

9116

Setpoint [display unit or 1/10 %]	500
Activation direction	INCR
Hysteresis [display unit or 1/10 %]	1
Action on error	Open
Activation delay [s]	0
Deactivation delay [s]	0
Setpoint Low [display unit or 1/10 %]	500
Setpoint High [display unit or 1/10 %]	750

Advanced Parameters

Password	0
LCD contrast	3
LCD backlight	9
TAG ch1	"TAGNO"
TAG ch2 (only 9113BB)	"TAGNO"
Line function	A_OUT
Enable password	NO
Enable relay fast set	YES
Language	UK
Enable rail status signal	YES
Enable SIL configuration	NO

9202**Type no.****9202B1A****9202B2A****9202B3A*****Input Parameters***

Ch 1 function

DIRECT

Ch 2 function

DIRECT

Short circuit indication

YES

Breakage indication

YES

Advanced Parameters

LCD contrast

3

LCD backlight

9

TAG ch1

"TAGNO"

TAG ch2

"TAGNO"

Line function

D_OUT

Password

0

Enable password

NO

Enable rail status signal

YES

Enable SIL configuration

NO

Language

UK

Type no.**9202B1B****9202B2B****9202B3B*****Input Parameters***

Ch 1 function

DIRECT

Ch 2 function

DIRECT

Short circuit indication

YES

Breakage indication

YES

Advanced Parameters

LCD contrast

3

LCD backlight

9

TAG ch1

"TAGNO"

TAG ch2

"TAGNO"

Line function

D_OUT

9202

Password	0
Enable password	NO
Enable rail status signal	YES
Enable SIL configuration	NO
Language	UK

9203**Type no.****9203B1A****9203B2A*****Input Parameters***

Ch 1 function

DIRECT

Ch 2 function

DIRECT

Advanced Parameters

LCD contrast

3

LCD backlight

9

TAG ch1

"TAGNO"

TAG ch2

"TAGNO"

Line function

D_OUT

Password

0

Enable password

NO

Enable SIL configuration

NO

Language

UK

Type no.**9203B1B*****Input Parameters***

Ch 1 function

DIRECT

Ch 2 function

DIRECT

Advanced Parameters

LCD contrast

3

LCD backlight

9

TAG ch1

"TAGNO"

TAG ch2

"TAGNO"

Line function

D_OUT

Password

0

Enable password

NO

Enable SIL configuration

NO

Language

UK