



**Ex / I.S. data for 5114B, all types:**

Terminal 31, 32, and 33  
Um..... 250 V

**5114B1**  
Terminal 41, 42, 44 to 43 and 51, 52, 54 to 53  
Uo..... 7.5 VDC  
Io..... 6.0 mADC  
Po..... 11.25 mW  
Lo..... 200 mH  
Co..... 6.0 µF

**5114B2**  
Terminal 44 to 41 and 54 to 51  
Uo..... 28 VDC  
Io..... 87 mADC  
Po..... 0.62 W  
Lo..... 4.2 mH  
Co..... 0.08 µF

Terminal 42, 43 to 41 and 52, 53 to 51  
Uo..... 7.5 VDC  
Io..... 6.0 mADC  
Po..... 11.25 mW  
Lo..... 200 mH  
Co..... 6.0 µF

**5114B3**  
Terminal 41, 42, 44 to 43 and 52, 53 to 51  
Uo..... 7.5 VDC  
Io..... 6.0 mADC  
Po..... 11.25 mW  
Lo..... 200 mH  
Co..... 6.0 µF

Terminal 54 to 51  
Uo..... 28 VDC  
Io..... 87 mADC  
Po..... 0.62 W  
Lo..... 4.2 mH  
Co..... 0.08 µF

**Ex / I.S. data for 5115B, all types:**

Terminal 31, 32, and 33  
Um..... 250 V

**5115B1**  
Terminal 41, 42, 44 to 43 and 51, 52, 54 to 53  
Uo..... 7.5 VDC  
Io..... 6.0 mADC  
Po..... 11.25 mW  
Lo..... 200 mH  
Co..... 6.0 µF

**5115B2**  
Terminal 44 to 41 and 54 to 51  
Uo..... 28 VDC  
Io..... 87 mADC  
Po..... 0.62 W  
Lo..... 4.2 mH  
Co..... 0.08 µF

Terminal 42, 43 to 41 and 52, 53 to 51  
Uo..... 7.5 VDC  
Io..... 6.0 mADC  
Po..... 11.25 mW  
Lo..... 200 mH  
Co..... 6.0 µF

**5115B3**  
Terminal 41, 42, 44 to 43 and 52, 53 to 51  
Uo..... 7.5 VDC  
Io..... 6.0 mADC  
Po..... 11.25 mW  
Lo..... 200 mH  
Co..... 6.0 µF

Terminal 54 to 51  
Uo..... 28 VDC  
Io..... 87 mADC  
Po..... 0.62 W  
Lo..... 4.2 mH  
Co..... 0.08 µF

**Ex / I.S. data for 5116B**

Um..... 253 V  
Um, Loop Link..... 60 V  
Temperature / bipolar mV input  
Terminal 41, 42, 44 and 43  
Uo..... 7.5 VDC  
Io..... 2.2 mA  
Po..... 11.25 mW  
Co..... 6 µF  
Lo..... 1.0 H

Unipolar mA / V input:  
Terminal 51, 52 and 53  
Uo..... 7.5 VDC  
Io..... 2.2 mA  
Po..... 4.2 mW  
Co..... 6 µF  
Lo..... 1.0 H

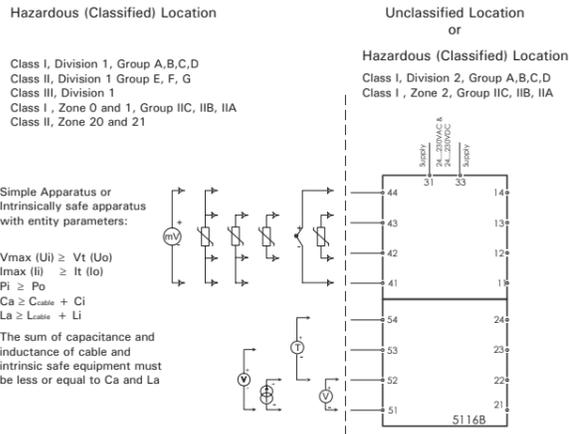
2-wire supply / reference voltage  
Terminal 51, 52, 53 and 54  
Uo..... 28 V  
Io..... 93 mA  
Po..... 650 mW

**Ex / I.S. data for 5131B:**

Um..... 250 V  
Uo..... 8.0 VDC  
Io..... 10 mADC  
Po..... 20 mW  
Lo..... 200 mH  
Co..... 1.0 µF

	<b>IIC</b>	<b>IIB</b>	<b>IIA</b>
Co:	75 nF	645 nF	2 µF
Lo:	3 mH	16 mH	31 mH

**FM CONTROL DRAWING NO. 5116QF01**



Terminal	Voc (V)	Isc (mA)	Po (mW)	La (mH)			Ca (µF)		
				A,B	C,E	D,F,G	A,B	C,E	D,F,G
41,42,43,44	7.5	2.2	4.2	1000	1000	1000	6	36	445
51,52,53	7.5	2.2	4.2	1000	1000	1000	6	36	445
51,52,53,54	28	93.0	650	3	16	31	0.075	0.645	2

**Installation notes:**

- The maximum non hazardous location voltage is 250Vac/dc.
- The installation shall be in accordance with the National Electrical Code NFPA 70, Articles 504 and 505.
- 5116B is galvanic isolated and does not require grounding
- For installation in Div 2 or Zone 2 the 5116B must be installed in an enclosure according to ANSI/ISA S82.
- Install in Pollution degree 2 or better
- Use 60 / 75 °C Copper Conductors with Wire Size AWG: (26 – 14).
- Warning: Substitution of components may impair intrinsic safety.

Rev. AA 2005-07-20

**EU DECLARATION OF CONFORMITY**



(5114DoC\_102)

As manufacturer **PR electronics A/S, Lerbakken 10, DK-8410 Rønde** hereby declares that the following products:  
**Type: 5114**  
**Name: Programmable transmitter**  
**From serial no.: 161966001**  
 is in conformity with the following directives and standards:

- The EMC Directive 2014/30/EU and later amendments  
**EN 61326-1 : 2013**  
Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.
- The Low Voltage Directive 2014/35/EU and later amendments  
**EN 61010-1 : 2010**
- The ATEX Directive 2014/34/EU and later amendments  
**EN 50014 : 1997 E incl. A1+A2, EN 50020 : 2002 E and EN 50281-1-1 : 1998 incl. A1**  
ATEX certificate: DEMKO 99ATEX124571 (5114B)  
No changes are required to enable compliance with the replacement standards:  
**EN 60079-0 : 2012 + A11 : 2013 and EN 60079-11 : 2012**
- Notified body **UL International Demko A/S (0539)**  
Lyskær 8  
P.O. Box 514  
DK-2730 Herlev
- The RoHS2 Directive 2011/65/EU and later amendments:  
**EN 50581 : 2012**

Rønde, 23 June 2017

*Stig Lindemann*  
Stig Lindemann, CTO  
Manufacturer's signature

**EU DECLARATION OF CONFORMITY**



(5115DoC\_102)

As manufacturer **PR electronics A/S, Lerbakken 10, DK-8410 Rønde** hereby declares that the following products:  
**Type: 5115**  
**Name: Signal calculator**  
**From serial no.: 161966001**  
 is in conformity with the following directives and standards:

- The EMC Directive 2014/30/EU and later amendments  
**EN 61326-1 : 2013**  
Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.
- The Low Voltage Directive 2014/35/EU and later amendments  
**EN 61010-1 : 2010**
- The ATEX Directive 2014/34/EU and later amendments  
**EN 50014 : 1997 E incl. A1+A2, EN 50020 : 2002 E and EN 50281-1-1 : 1998 incl. A1**  
ATEX certificate: DEMKO 00ATEX129567 (5115B)  
No changes are required to enable compliance with the replacement standards:  
**EN 60079-0 : 2012 + A11 : 2013 and EN 60079-11 : 2012**
- Notified body **UL International Demko A/S (0539)**  
Lyskær 8  
P.O. Box 514  
DK-2730 Herlev
- The RoHS2 Directive 2011/65/EU and later amendments:  
**EN 50581 : 2012**

Rønde, 23 June 2017

*Stig Lindemann*  
Stig Lindemann, CTO  
Manufacturer's signature

**EU DECLARATION OF CONFORMITY**



(5116DoC\_102)

As manufacturer **PR electronics A/S, Lerbakken 10, DK-8410 Rønde** hereby declares that the following products:  
**Type: 5116**  
**Name: Programmable transmitter**  
**From serial no.: 161966001**  
 is in conformity with the following directives and standards:

- The EMC Directive 2014/30/EU and later amendments  
**EN 61326-1 : 2013**  
Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.
- The Low Voltage Directive 2014/35/EU and later amendments  
**EN 61010-1 : 2010**
- The ATEX Directive 2014/34/EU and later amendments  
**EN 50014 : 1997 + A1, A2, EN 50020 : 2002, EN 50284 : 1999, EN 61241-0 : 2004 + prAA and draft IEC 61241-11 : 2004**  
ATEX certificate: KEMA 04ATEX1316 X (5116B)  
No changes are required to enable compliance with the replacement standards:  
**EN 60079-0 : 2012 + A11 : 2013 and EN 60079-11 : 2012**
- Notified body **KEMA Quality B.V. (0344)**  
Utrechtseweg 310, 6812 AR Arnhem  
P.O. Box 5185, 6802 ED Arnhem  
The Netherlands
- The RoHS2 Directive 2011/65/EU and later amendments:  
**EN 50581 : 2012**

Rønde, 23 June 2017

*Stig Lindemann*  
Stig Lindemann, CTO  
Manufacturer's signature

**EU DECLARATION OF CONFORMITY**



(5131DoC\_102)

As manufacturer **PR electronics A/S, Lerbakken 10, DK-8410 Rønde** hereby declares that the following products:  
**Type: 5131**  
**Name: 2-wire programmable transmitter**  
**From serial no.: 161966001**  
 is in conformity with the following directives and standards:

- The EMC Directive 2014/30/EU and later amendments  
**EN 61326-1 : 2013**  
Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.
- The Low Voltage Directive 2014/35/EU and later amendments  
**EN 61010-1 : 2010**
- The ATEX Directive and later amendments  
**EN 50014 : 1997 E incl. A1+A2, EN 50020 : 2002 E and EN 50281-1-1 : 1998 incl. A1**  
ATEX certificate: DEMKO 99ATEX124572 (5131B)  
No changes are required to enable compliance with the replacement standards:  
**EN 60079-0 : 2012 + A11 : 2013 and EN 60079-11 : 2012**
- Notified body **UL International Demko A/S (0539)**  
Lyskær 8  
P.O. Box 514  
DK-2730 Herlev
- The RoHS2 Directive 2011/65/EU and later amendments:  
**EN 50581 : 2012**

Rønde, 23 June 2017

*Stig Lindemann*  
Stig Lindemann, CTO  
Manufacturer's signature