

FM CONTROL DRAWING NO. 5116QF01

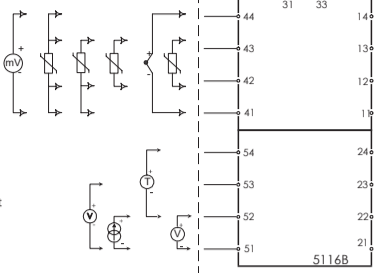
Hazardous (Classified) Location

Unclassified Location
or

Class I, Division 1, Group A,B,C,D
Class II, Division 1 Group E, F, G
Class III, Division 1
Class I, Zone 0 and 1, Group IIC, IIB, IIA
Class II, Zone 20 and 21

Hazardous (Classified) Location
Class I, Division 2, Group A,B,C,D
Class I, Zone 2, Group IIC, IIB, IIA

Simple Apparatus or
Intrinsically safe apparatus
with entity parameters:



$$V_{max} (U_i) \geq V_t (U_o)$$

$$I_{max} (I_i) \geq I_t (I_o)$$

$$P_i \geq P_o$$

$$C_a \geq C_{active} + C_i$$

$$L_a \geq L_{active} + L_i$$

The sum of capacitance and
inductance of cable and
intrinsic safe equipment must
be less or equal to C_a and L_a

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:

- 1) The maximum non hazardous location voltage is 250Vac/dc.
- 2) The installation shall be in accordance with the National Electrical Code NFPA 70, Articles 504 and 505.
- 3) 5116B is galvanic isolated and does not require grounding
- 4) For installation in Div 2 or Zone 2 the 5116B must be installed in an enclosure according to ANSI/ISA S82.
- 5) Install in Pollution degree 2 or better
- 6) Use 60 / 75 °C Copper Conductors with Wire Size AWG: (26 - 14).
- 7) Warning: Substitution of components may impair intrinsic safety.

Rev. AA 2005-07-20

DECLARATION OF CONFORMITY

(5114DoC_101)

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.: 150802000

is in conformity with the following directives and standards:

The EMC Directive and later amendments
until 2016.04.19: 2004/108/EC
from 2016.04.20: 2014/30/EU

EN 61326-1 : 2013

For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.

The Low Voltage Directive and later amendments

until 2016.04.19: 2006/95/EC
from 2016.04.20: 2014/35/EU

EN 61010-1 : 2010

The ATEX Directive and later amendments

until 2016.04.19: 94/9/EC
from 2016.04.20: 2014/34/EU

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 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

The product has been manufactured according to Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Rønde, 29 March 2016

Stig Lindemann
Stig Lindemann, CTO
Manufacturer's signature

DECLARATION OF CONFORMITY

(5115DoC_101)

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.: 150802000

is in conformity with the following directives and standards:

The EMC Directive and later amendments
until 2016.04.19: 2004/108/EC
from 2016.04.20: 2014/30/EU

EN 61326-1 : 2013

For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.

The Low Voltage Directive and later amendments

until 2016.04.19: 2006/95/EC
from 2016.04.20: 2014/35/EU

EN 61010-1 : 2010

The ATEX Directive and later amendments

until 2016.04.19: 94/9/EC
from 2016.04.20: 2014/34/EU

EN 50014 : 1997 E incl. A1+A2, EN 50020 : 2002 E

and EN 50281-1-1 : 1998 incl. A1

ATEX certificate: DEMKO 00ATEX128567 (5115B)

No changes are required to enable compliance with the replacement standards:

EN 60079-0 : 2012 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

The product has been manufactured according to Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Rønde, 29 March 2016

Stig Lindemann
Stig Lindemann, CTO
Manufacturer's signature

DECLARATION OF CONFORMITY

(5116DoC_101)

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.: 150802000

is in conformity with the following directives and standards:

The EMC Directive and later amendments
until 2016.04.19: 2004/108/EC
from 2016.04.20: 2014/30/EU

EN 61326-1 : 2013

For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.

The Low Voltage Directive and later amendments

until 2016.04.19: 2006/95/EC
from 2016.04.20: 2014/35/EU

EN 61010-1 : 2010

The ATEX Directive and later amendments

until 2016.04.19: 94/9/EC
from 2016.04.20: 2014/34/EU

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 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

The product has been manufactured according to Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Rønde, 29 March 2016

Stig Lindemann
Stig Lindemann, CTO
Manufacturer's signature

DECLARATION OF CONFORMITY

(5131DoC_101)

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.: 150802000

is in conformity with the following directives and standards:

The EMC Directive and later amendments
until 2016.04.19: 2004/108/EC
from 2016.04.20: 2014/30/EU

EN 61326-1 : 2013

For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.

The Low Voltage Directive and later amendments

until 2016.04.19: 2006/95/EC
from 2016.04.20: 2014/35/EU

EN 61010-1 : 2010

The ATEX Directive and later amendments

until 2016.04.19: 94/9/EC
from 2016.04.20: 2014/34/EU

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 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

The product has been manufactured according to Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Rønde, 29 March 2016

Stig Lindemann
Stig Lindemann, CTO
Manufacturer's signature