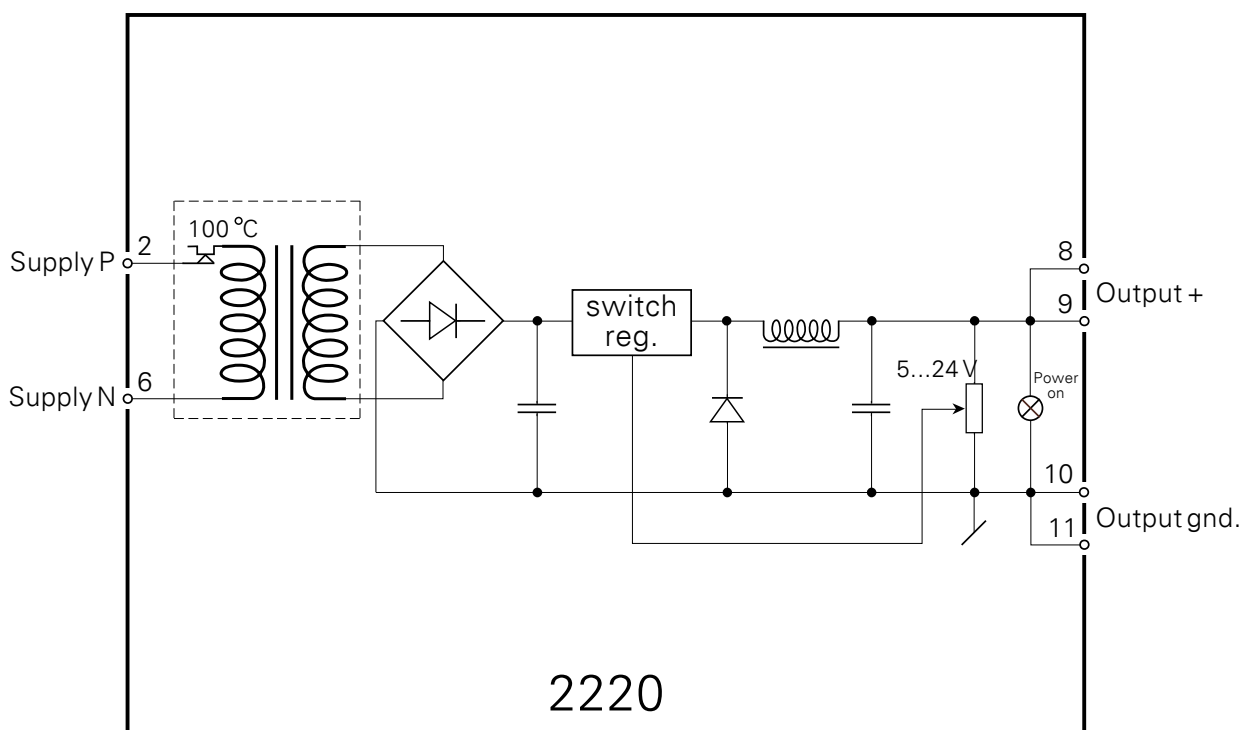


2220	3101	4104	5104	5331	6185	9106
2222	3102	4114	5105	5332	6331	9107
2223	3103	4116	5106	5333	6333	9113
2224	3104	4131	5107	5334	6334	9116
2229	3105	4179	5114	5335	6335	9202
2231	3108	4184	5115	5337	6337	9203
2240	3109	4222	5116	5343	6350	9410
2255	3111	4511	5131	5350	7400	9421
2261	3112		5202	5420	7401	
2281	3113		5203	5437	7501	
2286	3114		5223	5531	7900	
2289	3117		5225	5714	8501	
2914	3118			5715		
	3185			5725		
	3186			5802		
	3331					
	3333					
	3337					
	3405					

Order: 2220

Type	Version		Output	
2220	110 VAC	: A	Special (5...24 V)	: 0
	230 VAC	: B	24 VDC	: 1
	24 VAC	: D	15 VDC	: 2
	120 VAC	: F	12 VDC	: 3
			5 VDC	: 4

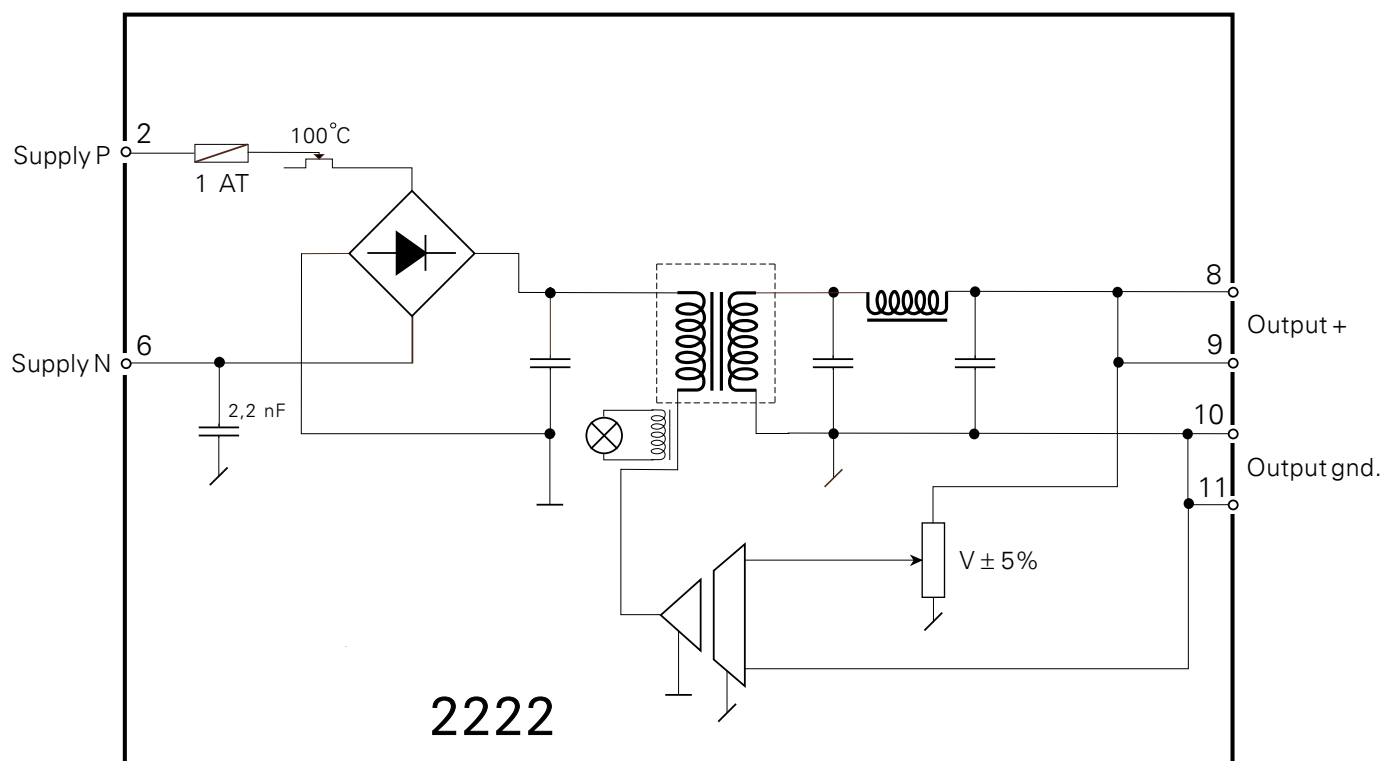
Block diagram:



Order : 2222

Type	Input		Output	
2222	115 VAC	: A	24 VDC	: 1
	230 VAC	: B		

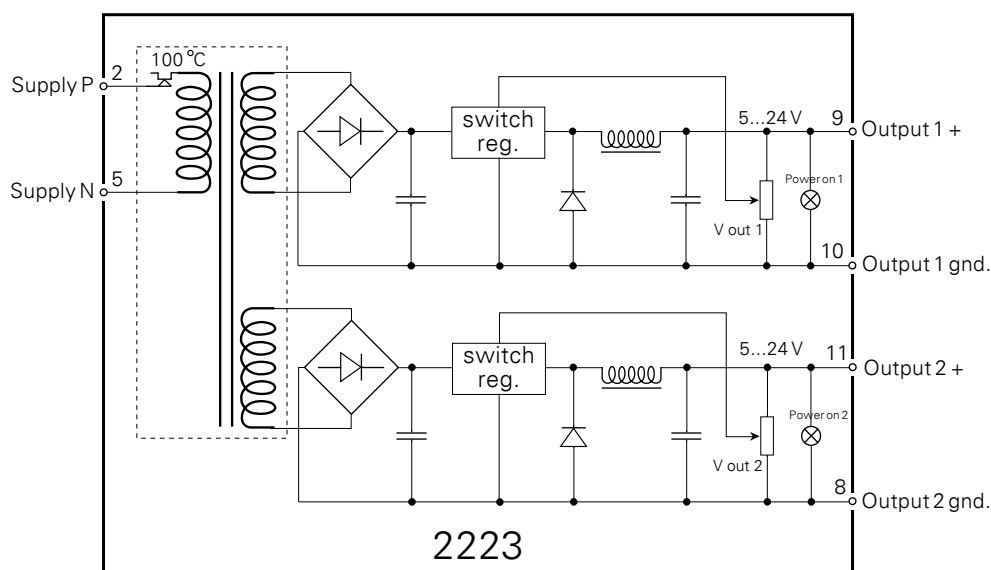
Block diagram:



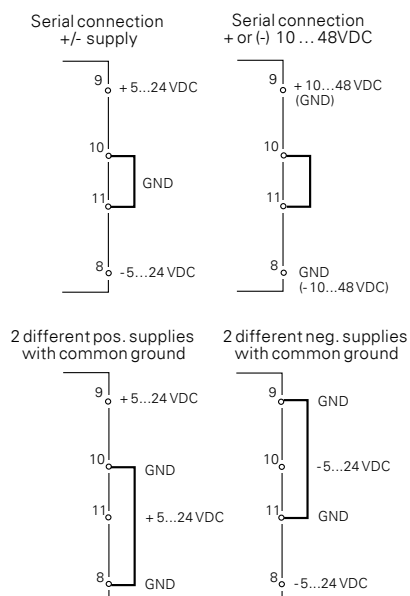
Order: 2223

Type	Version	Output 1	Output 2
2223	115 VAC : A	Special (5...24 VDC) : 0	Special (5...24 VDC) : 0
	230 VAC : B	24 VDC : 1	24 VDC : 1
	24 VAC : D	15 VDC : 2	15 VDC : 2
		12 VDC : 3	12 VDC : 3
		5 VDC : 4	5 VDC : 4

Block diagram:



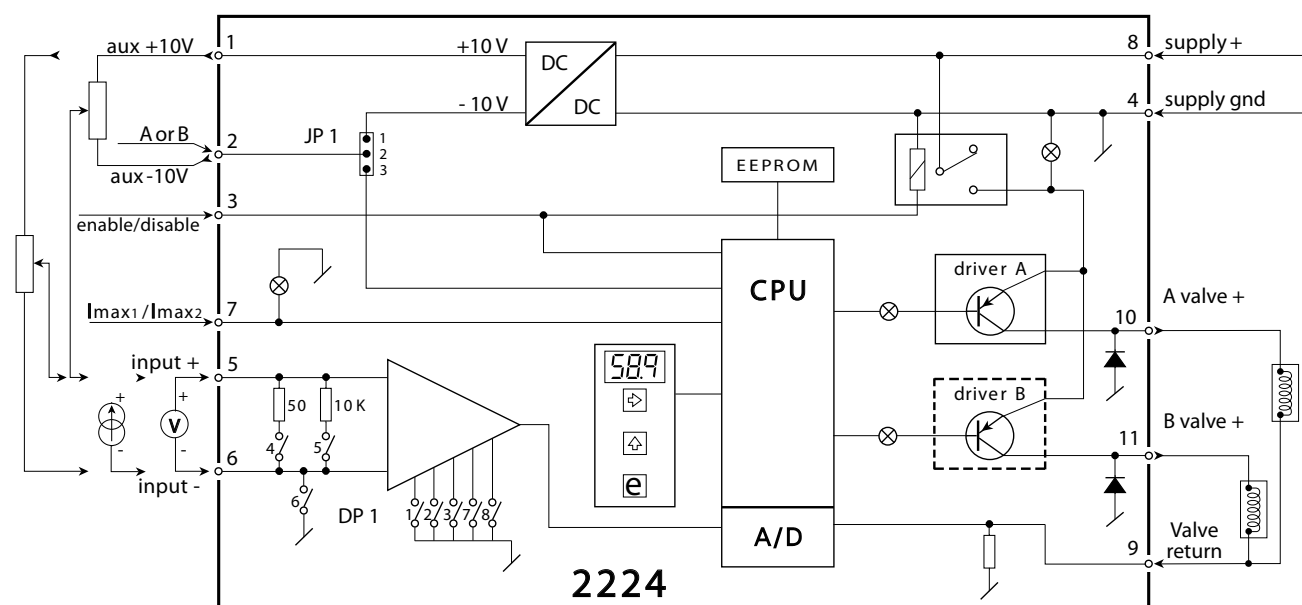
Connection diagram:



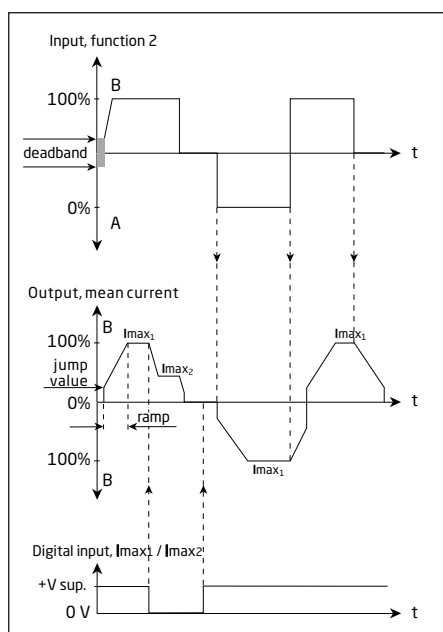
Order: 2224

Type	Input	Supply	Option
2224	0...20 mA : A	12 V : 1	Single valve (A) : A
	4...20 mA : B	24 V : 2	Double valve (A/B) : B
	0...1 V : C		
	0.2...1 V : D		
	0...10 V : E		
	2...10 V : F		
	±10 V potentiometer : G		
	0...10 V potentiometer : H		

Block diagram:



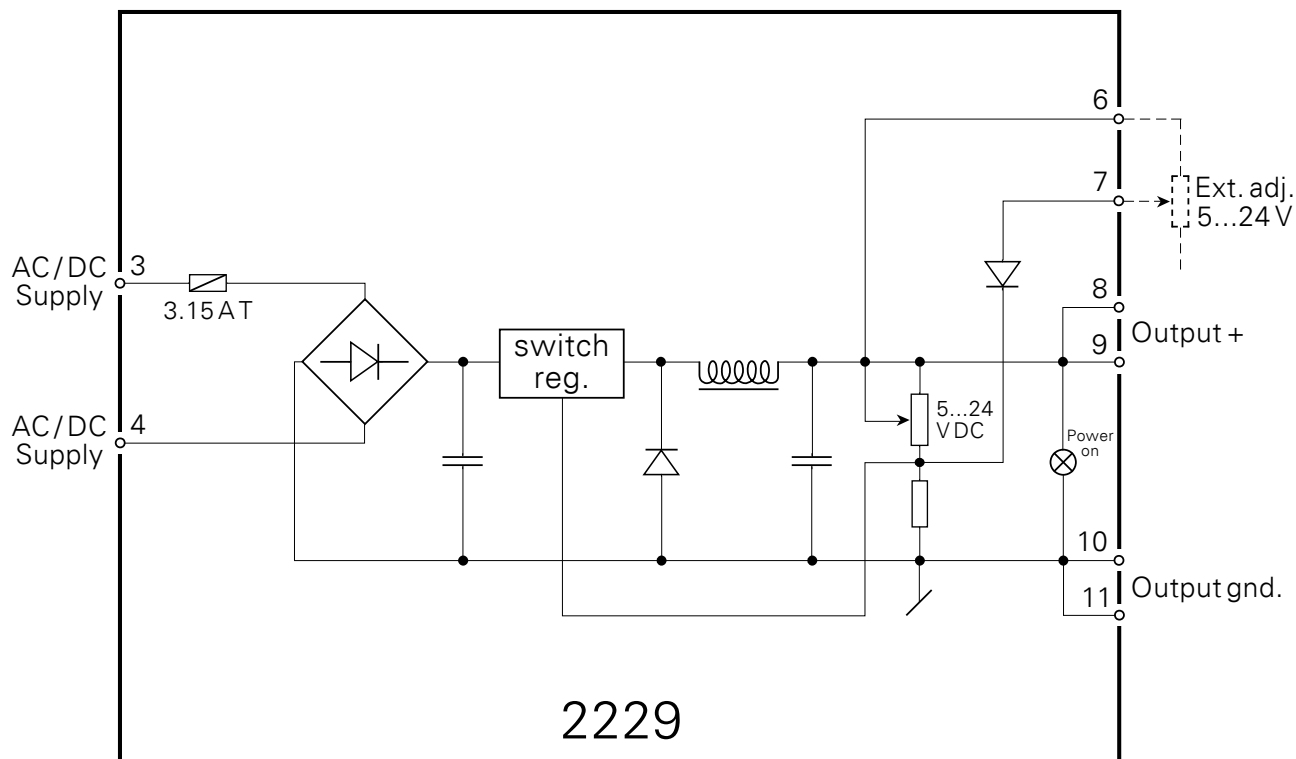
Timing diagram:



Order: 2229

Type	Version	Output
2229	AC or DC : A	Special (5...24 V) : 0
		24 VDC : 1
		15 VDC : 2
		12 VDC : 3
		5 VDC : 4

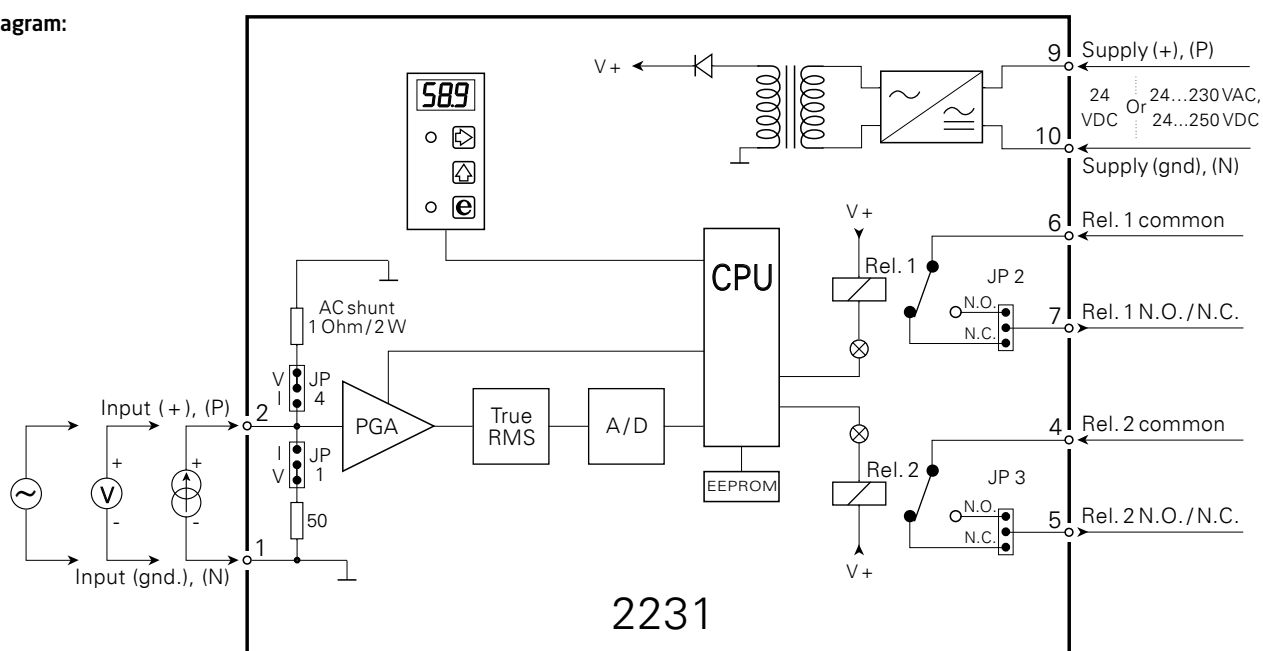
Block diagram:



Order: 2231

Type	Supply
2231	24 VDC : D
	24...230 VAC : P
	24...250 VDC

Block diagram:



Hardware programming:

Input:

Input	JP1	JP4
0...20 mADC	I	V
0...1 ARMS	I	I
0...250 VDC	V	V
0...250 VRMS	V	V

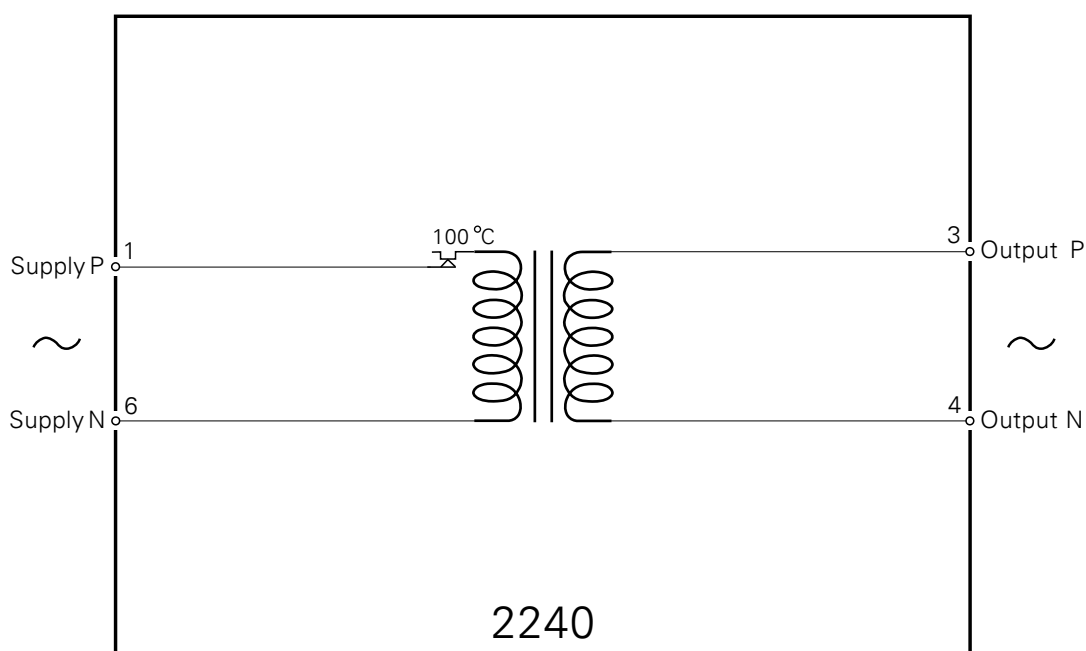
Output:

Relay	JP position
Relay 1 normally open	JP 2 N.O.
Relay 1 normally closed	JP 2 N.C.
Relay 2 normally open	JP 3 N.O.
Relay 2 normally closed	JP 3 N.C.

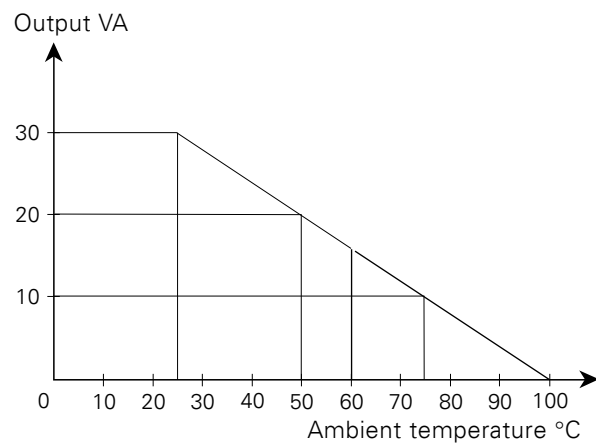
Order : 2240

Type	Input		Output	
2240	115 VAC	: A	24 VAC	: 1
	230 VAC	: B	12 VAC	: 5

Block diagram:



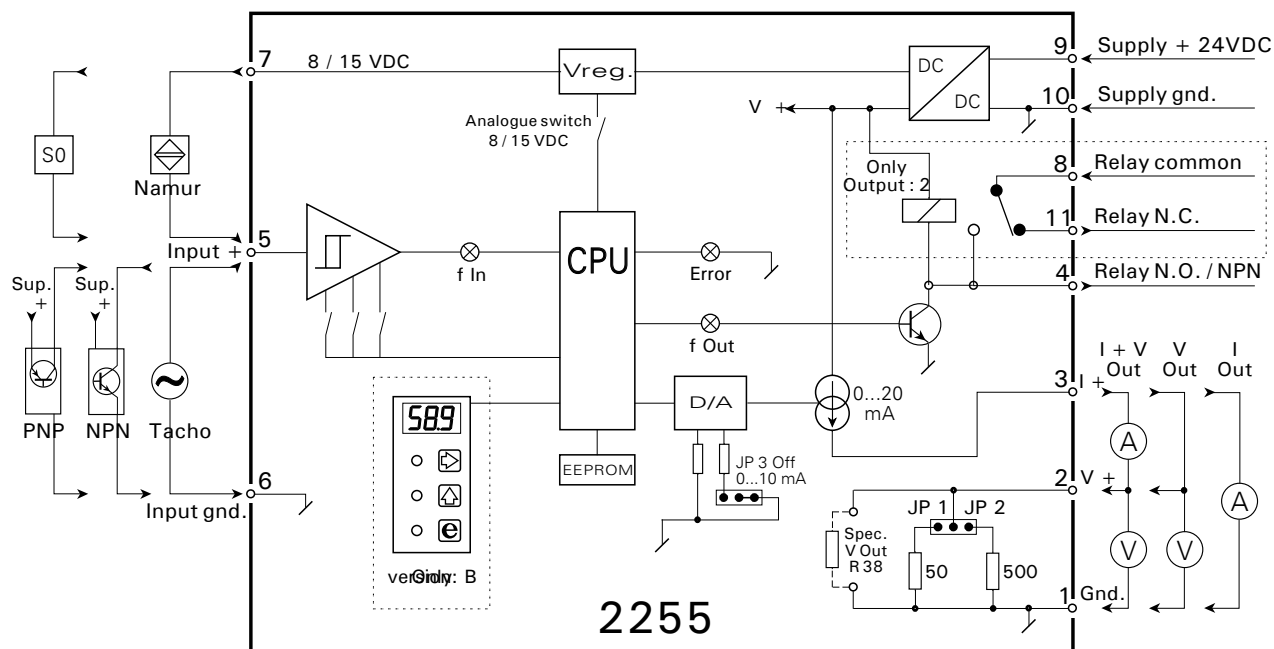
Maximum power output:



Order: 2255

Type	Version	Output
2255	Programmable : B	Analog + NPN output : 1 Analog + relay output : 2

Block diagram:

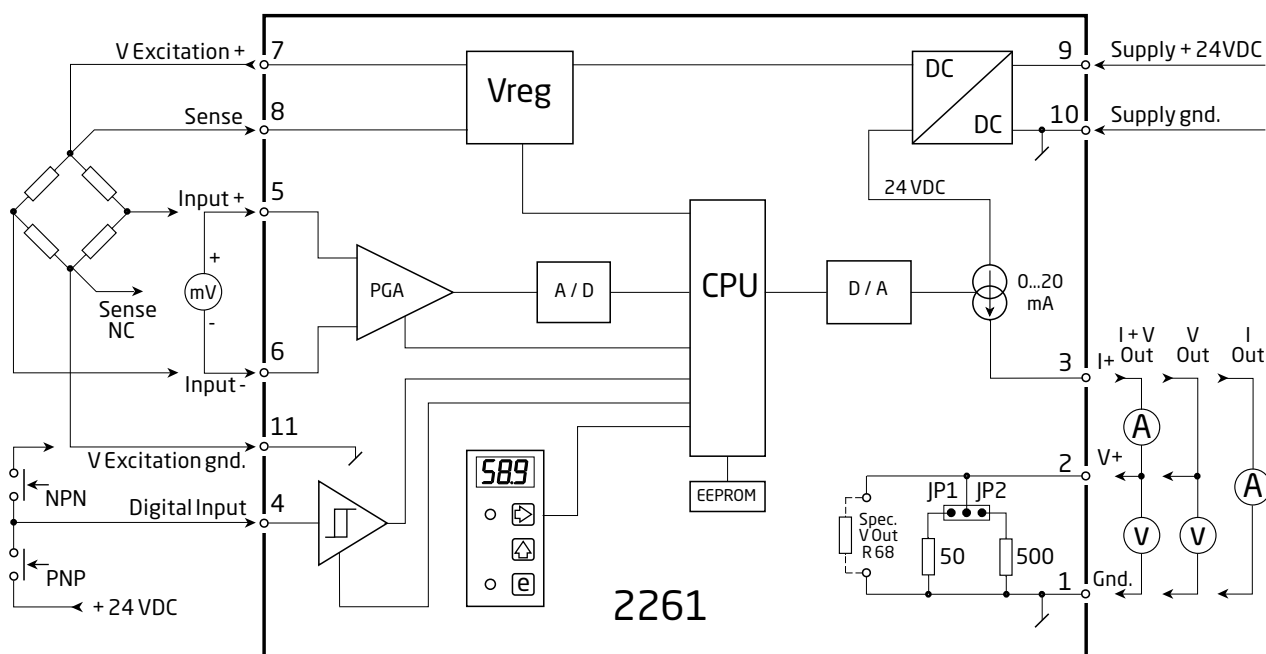


Analogue output programming:

Output range	JP3	JP2	JP1
0...10 mA (current only)	OFF	-	-
0...20 mA (current only)	ON	-	-
0...10 mA / 0...0.5 V	OFF	OFF	ON
0...20 mA / 0...1.0 V	ON	OFF	ON
0...10 mA / 0...5.0 V	OFF	ON	OFF
0...20 mA / 0...10.0 V	ON	ON	OFF
Special voltage output: (Resistor R38 mounted)	ON or OFF	OFF	OFF

Order: 2261

Block diagram:

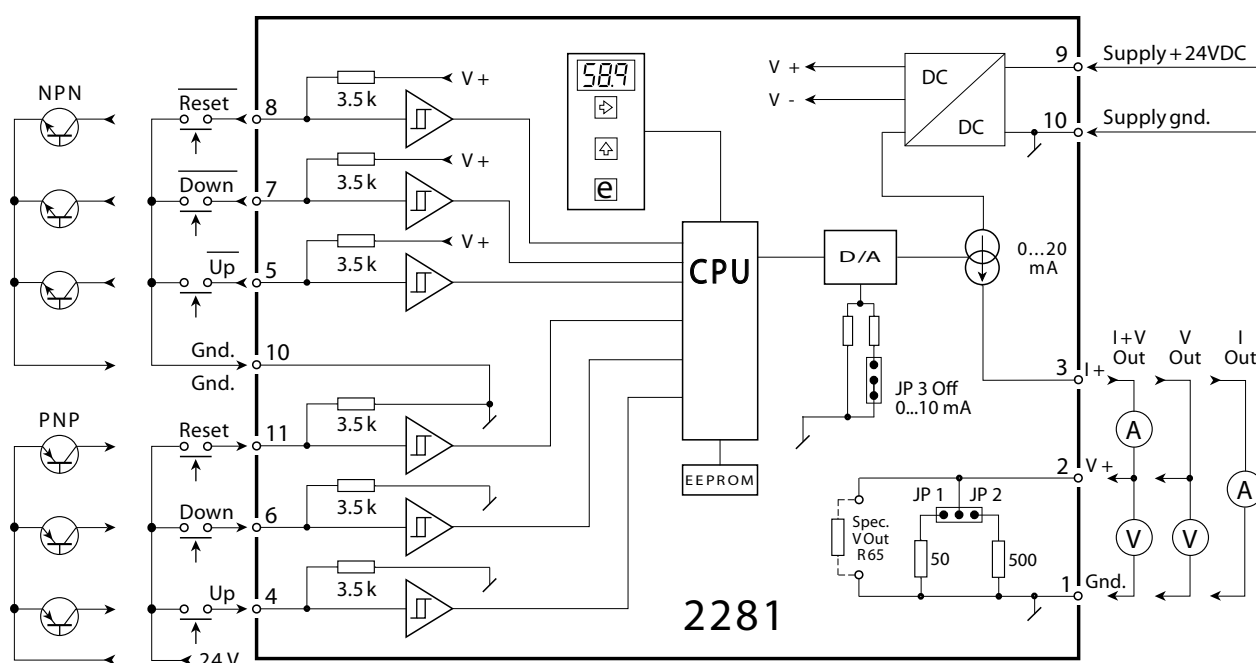


Hardware programming:

JP1	JP2	Output range	MENU 4.3
OFF	OFF	0...10 mA	001
		0...20 mA	002
ON	OFF	0...500 mV	003
		0...1000 mV	004
OFF	ON	0...5 V	005
		0...10 V	006

Order : 2281

Block diagram:



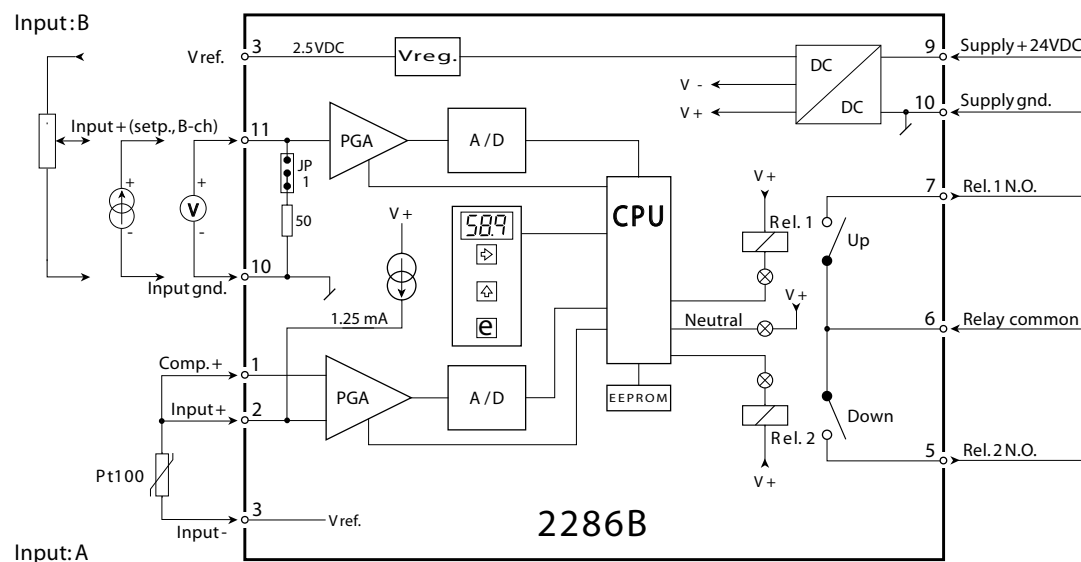
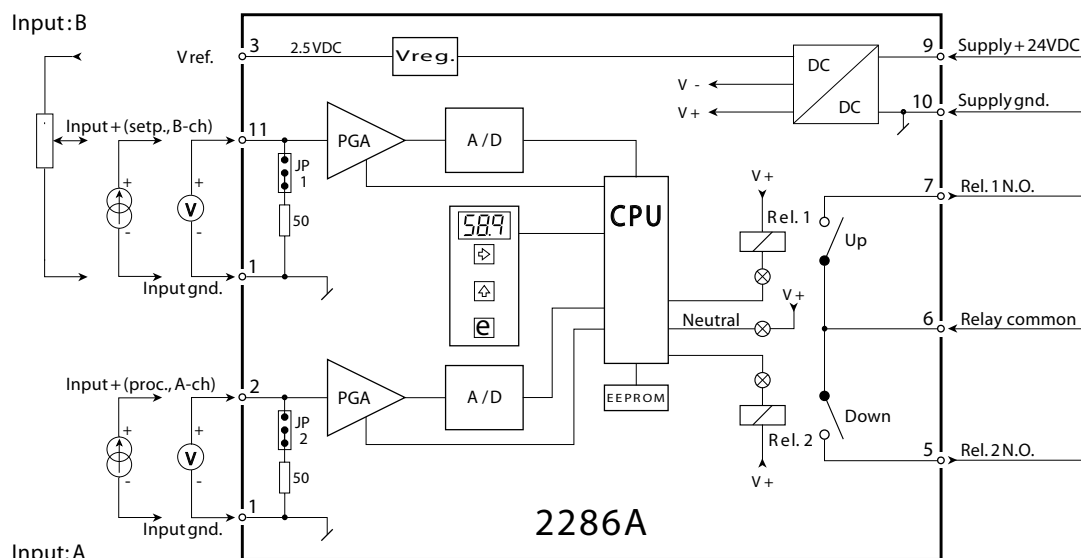
HARDWARE PROGRAMMING:

JP1	JP2	JP3	Output	MENU 4.3
OFF	OFF	OFF	0...10 mA	1
OFF	OFF	ON	0...20 mA	2
ON	OFF	OFF	0...500 mV	3
ON	OFF	ON	0...1000 mV	4
OFF	ON	OFF	0...5 V	5
OFF	ON	ON	0...10 V	6

Order : 2286

Type	Input
2286	Voltage / current : A
	Temperature : B

Block diagrams:



Hardware programming:

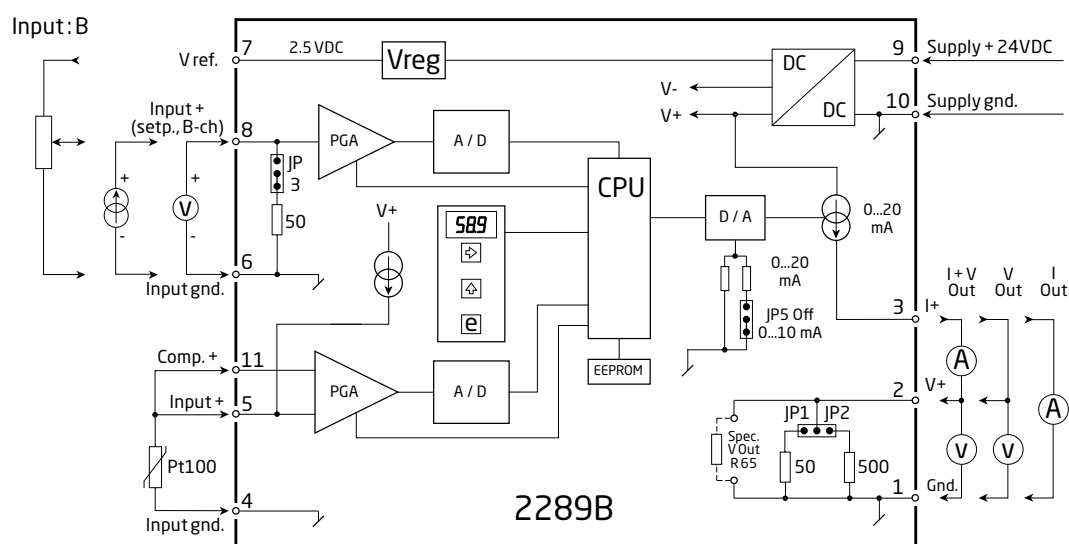
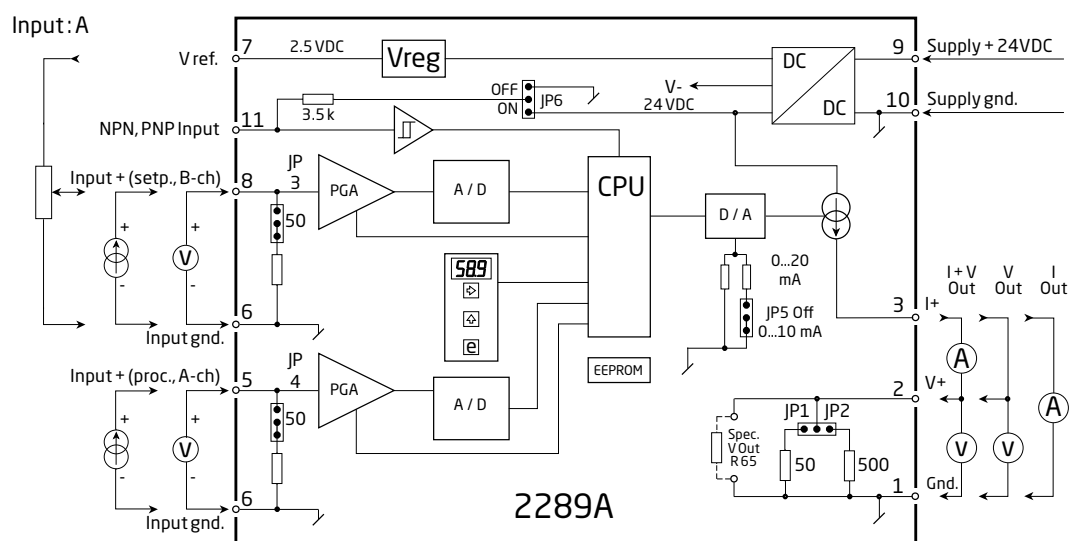
INPUT:

Channel A			
0...20 mA	JP2	ON	MENU 2.3 = I
0...10 VDC	JP2	OFF	MENU 2.3 = U
Channel B			
0...20 mA	JP1	ON	MENU 3.3 = I
0...10 VDC	JP1	OFF	MENU 3.3 = U

Order : 2289

Type	Inputs
2289	Current / voltage : A Pt100 & Current / voltage : B

Block diagrams:



Hardware programming:

INPUT:

Channel A 0...20 mA 0...10 VDC	JP4	ON	MENU 2.3 = I
	JP4	OFF	MENU 2.3 = U
Channel B 0...20 mA 0...10 VDC	JP3	ON	MENU 3.3 = I
	JP3	OFF	MENU 3.3 = U
NPN	JP6	ON	
PNP	JP6	OFF	

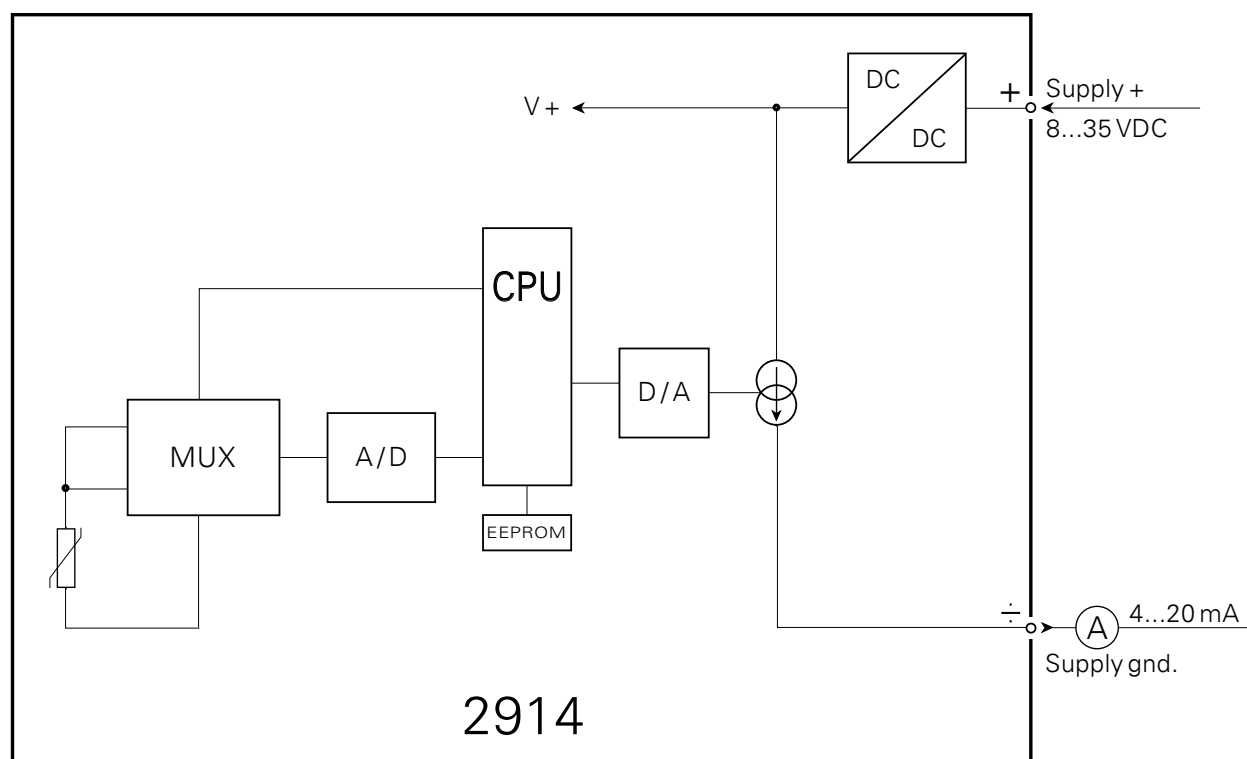
OUTPUT:

Output	JP1	JP2	JP5	MENU 4.3
0...10 mA	OFF	OFF	OFF	1
0...20 mA	OFF	OFF	ON	2
0...500 mV	ON	OFF	OFF	3
0...1000 mV	ON	OFF	ON	4
0...5 V	OFF	ON	OFF	5
0...10 V	OFF	ON	ON	6

Order: 2914

Type	Measurement range	Output	Sensor error value
2914	0...50°C : A	Special : 0	To max., ≥ 23 mA : A
	0...70°C : B	4...20 mA : 2	To min., ≤ 3.8 mA : B
	Special : X	20...4 mA : 9	Special : X

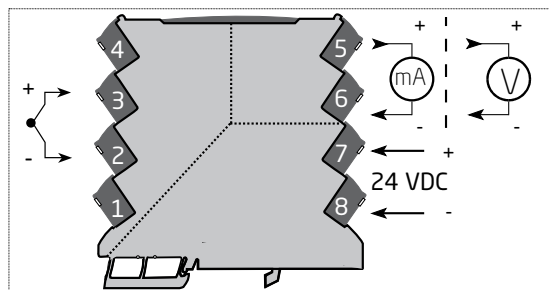
Block diagram:



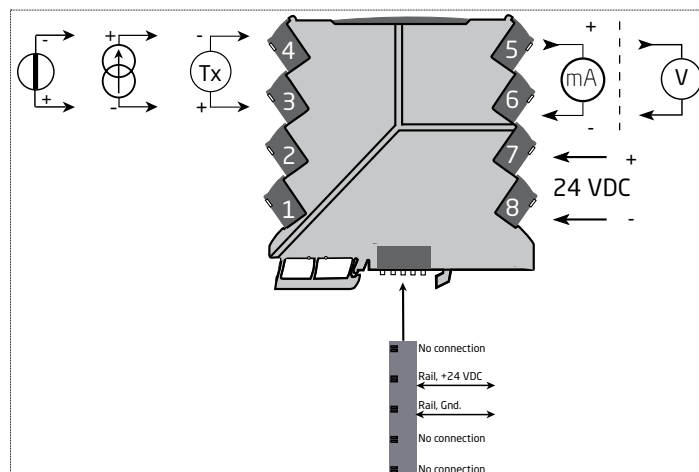
Order:

Type	Product name	Version
3101	TC J&K converter	Supplied via terminals :-
3102	Pt100 converter	Supplied via terminals :-
3103	Isolated repeater	With power rail connector Supplied via terminals :- :-N
3104	Isolated converter	With power rail connector Supplied via terminals :- :-N
3105	Isolated converter	With power rail connector Supplied via terminals :- :-N

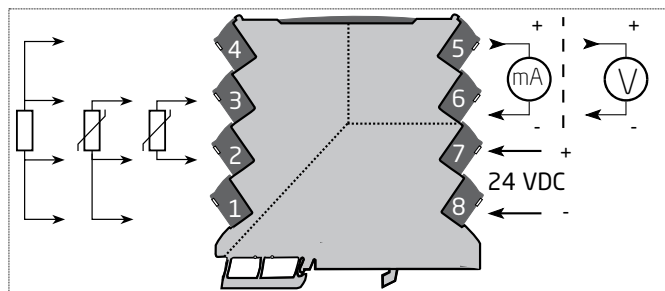
3101 block diagram:



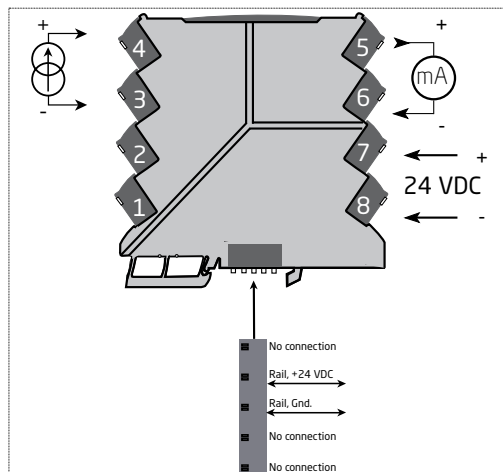
3104 block diagram:



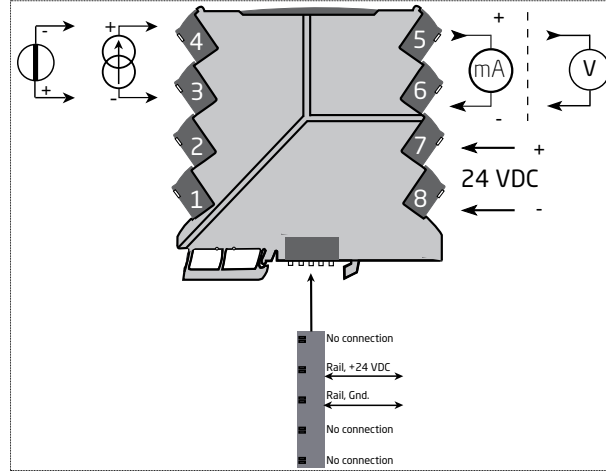
3102 block diagram:



3103 block diagram:



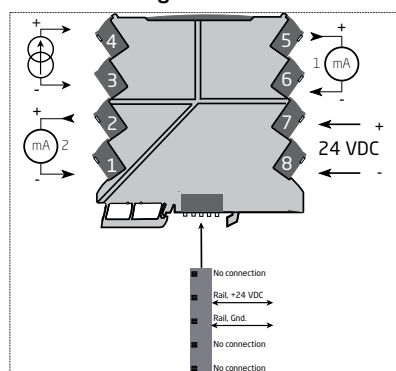
3105 block diagram:



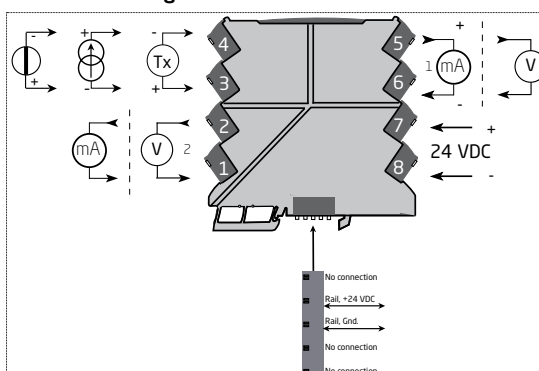
Order:

Type	Product name	Version
3108	Isolated repeater / splitter	With power rail connector : - Supplied via terminals : -N
3109	Isolated converter / splitter	With power rail connector : - Supplied via terminals : -N
3111	TC J&K converter - isolated	With power rail connector : - Supplied via terminals : -N
3112	Pt100 converter - isolated	With power rail connector : - Supplied via terminals : -N
3113	HART temperature converter	With power rail connector : - Supplied via terminals : -N

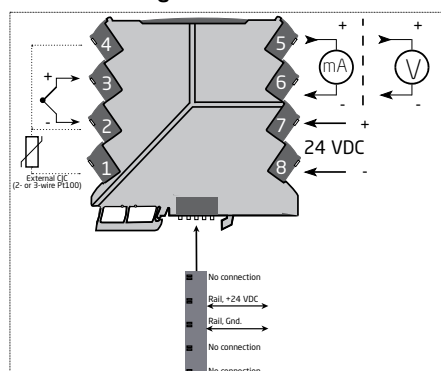
3108 block diagram:



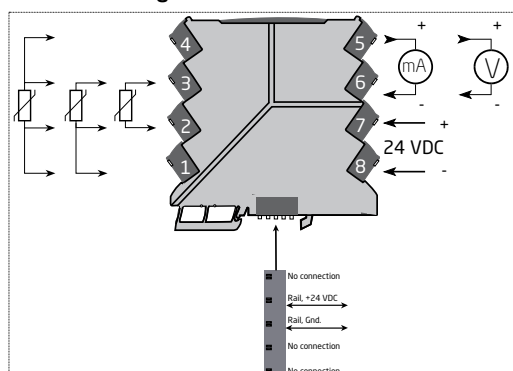
3109 block diagram:



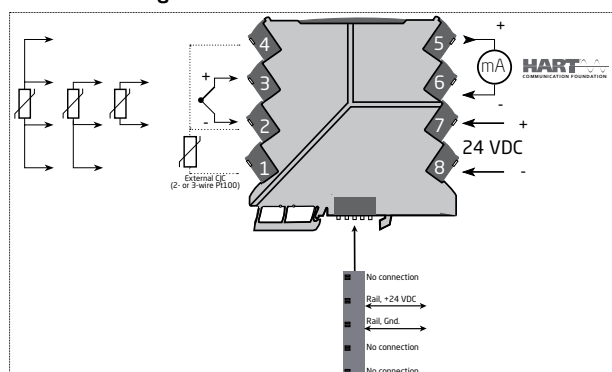
3111 block diagram:



3112 block diagram:



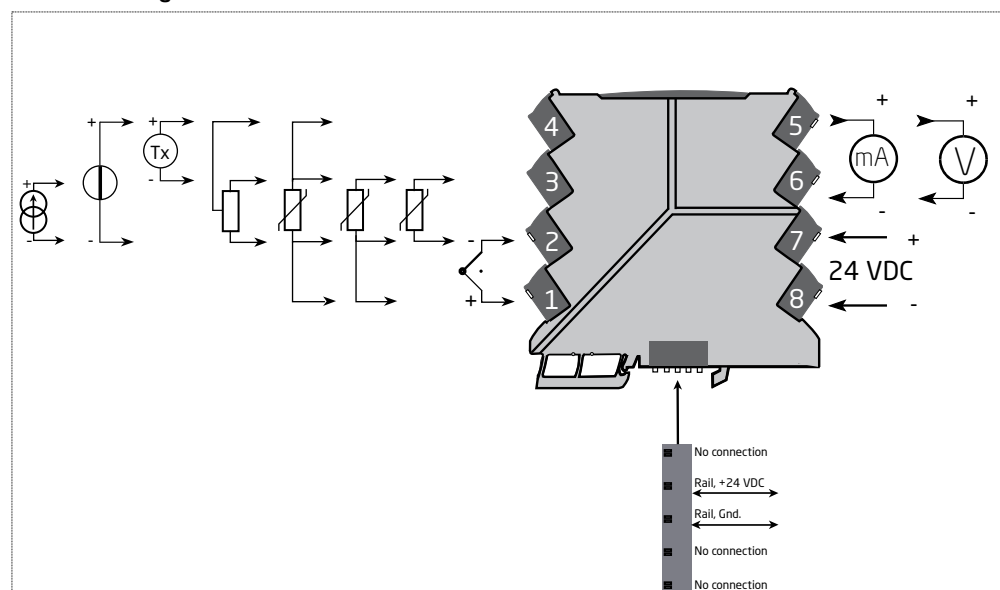
3113 block diagram:



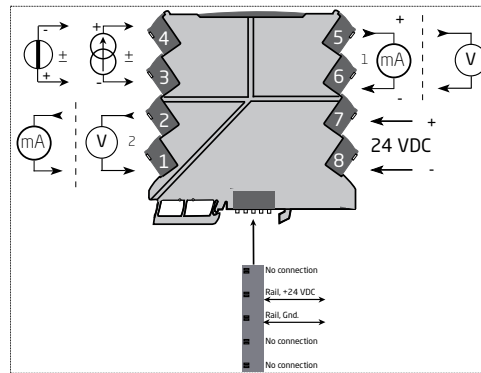
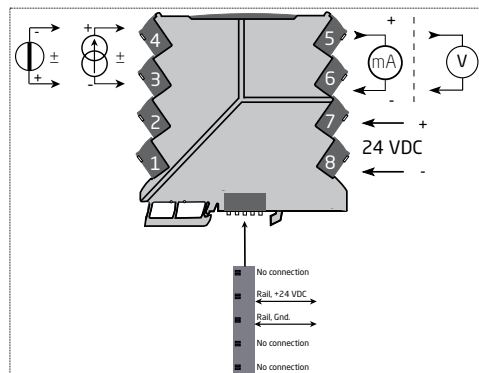
Order:

Type	Product name	Version
3114	Isolated universal converter	With power rail connector : - Supplied via terminals : -N

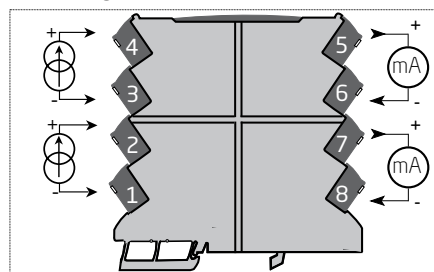
3114 block diagram:



Type	Product name	Version
3117	Bipolar isolated converter	With power rail connector : - Supplied via terminals : -N
3118	Bipolar isolated converter/ splitter	With power rail connector : - Supplied via terminals : -N



Type	Unit channels
3185A	1 2

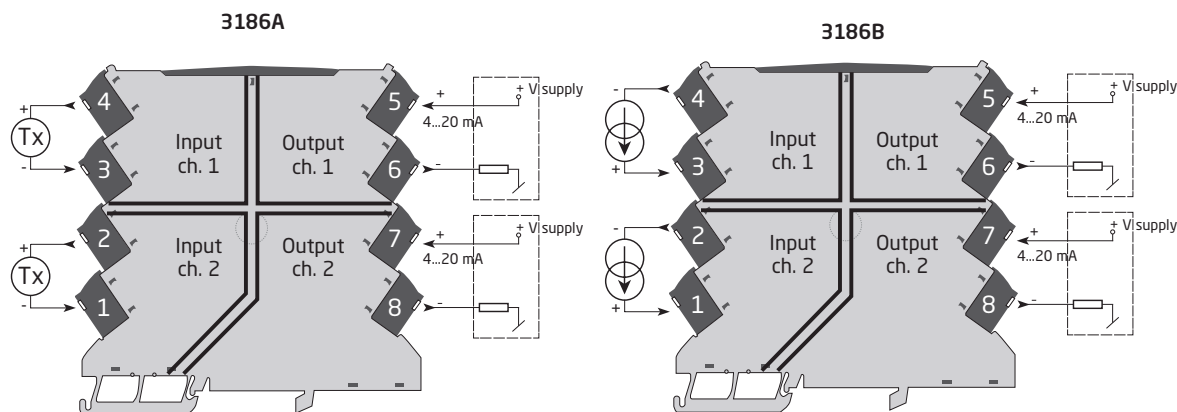


Order

Type	Version		Unit channels	
3186	2-wire transmitter isolator	: A	Single	: 1
	2-wire current isolator	: B	Double	: 2

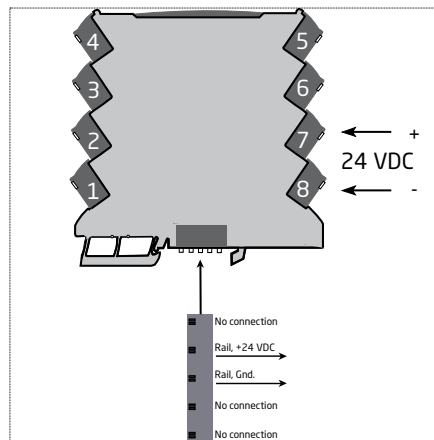
Example: 3186B2

Block diagram:



Order: 3405 = Power Connector Unit

Block diagram:



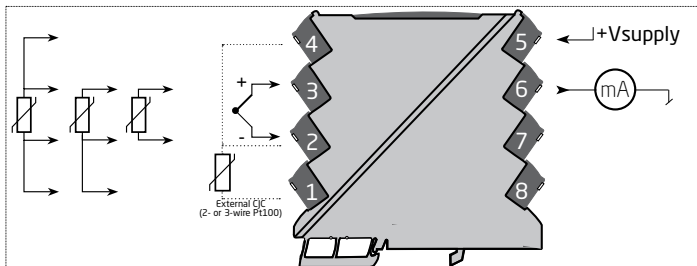
Order:

3331 = Temperature converter - loop powered - isolated

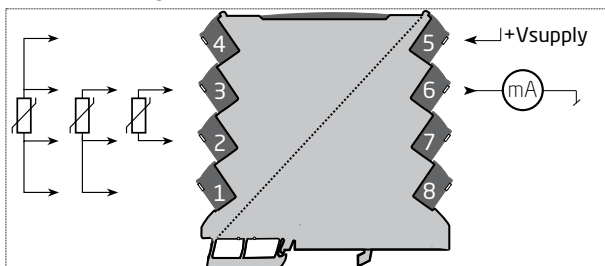
3333 = Pt100 converter - loop powered

3337 = HART temperature converter - loop powered - isolated

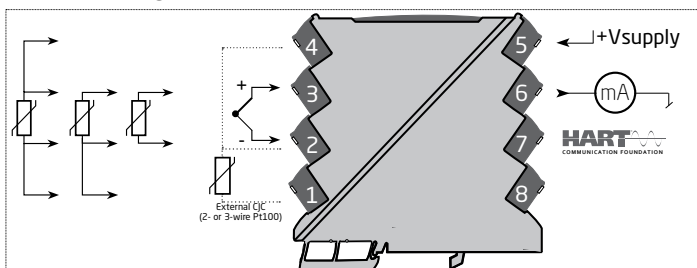
3331 block diagram:



3333 block diagram:



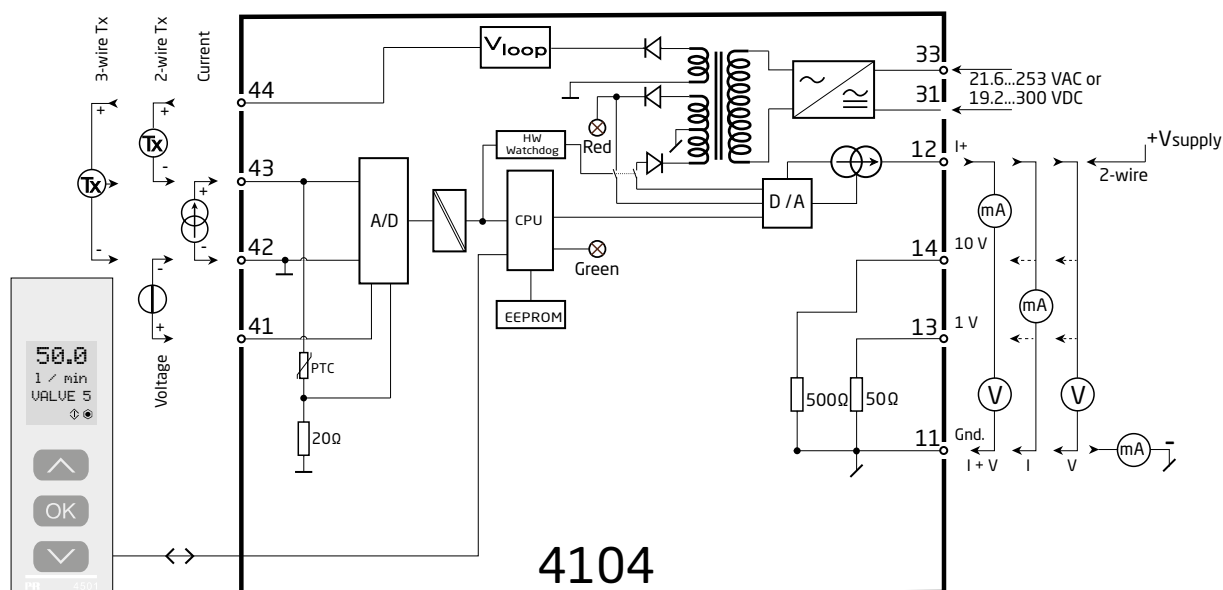
3337 block diagram:



Order codes:

4104 = Universal Uni/Bipolar transmitter
4501 = Display / programming front
4511 = Communication enabler

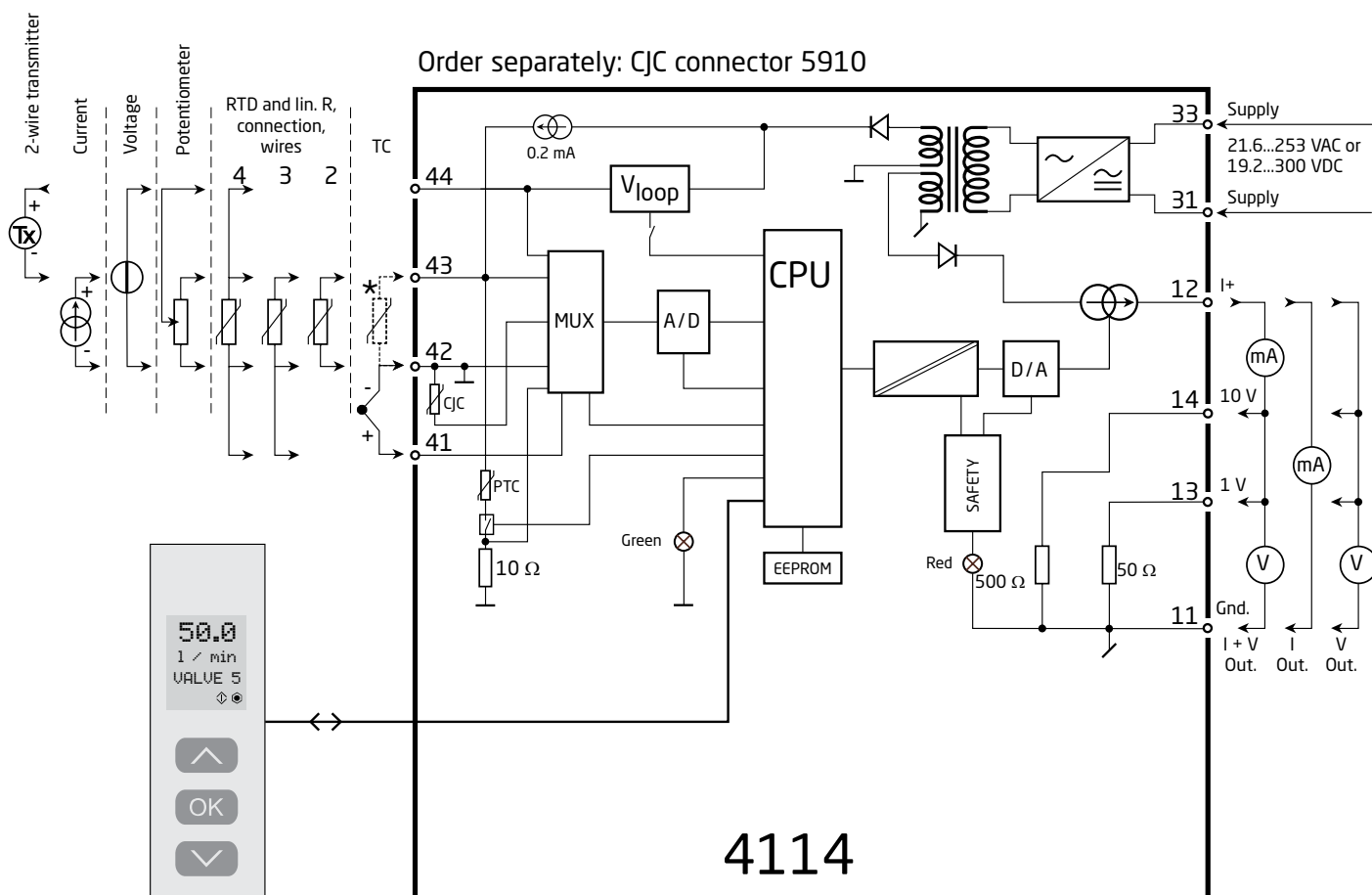
Block diagram:



Order codes:

4114 = Universal transmitter
4501 = Display / programming front
4511 = Communication enabler

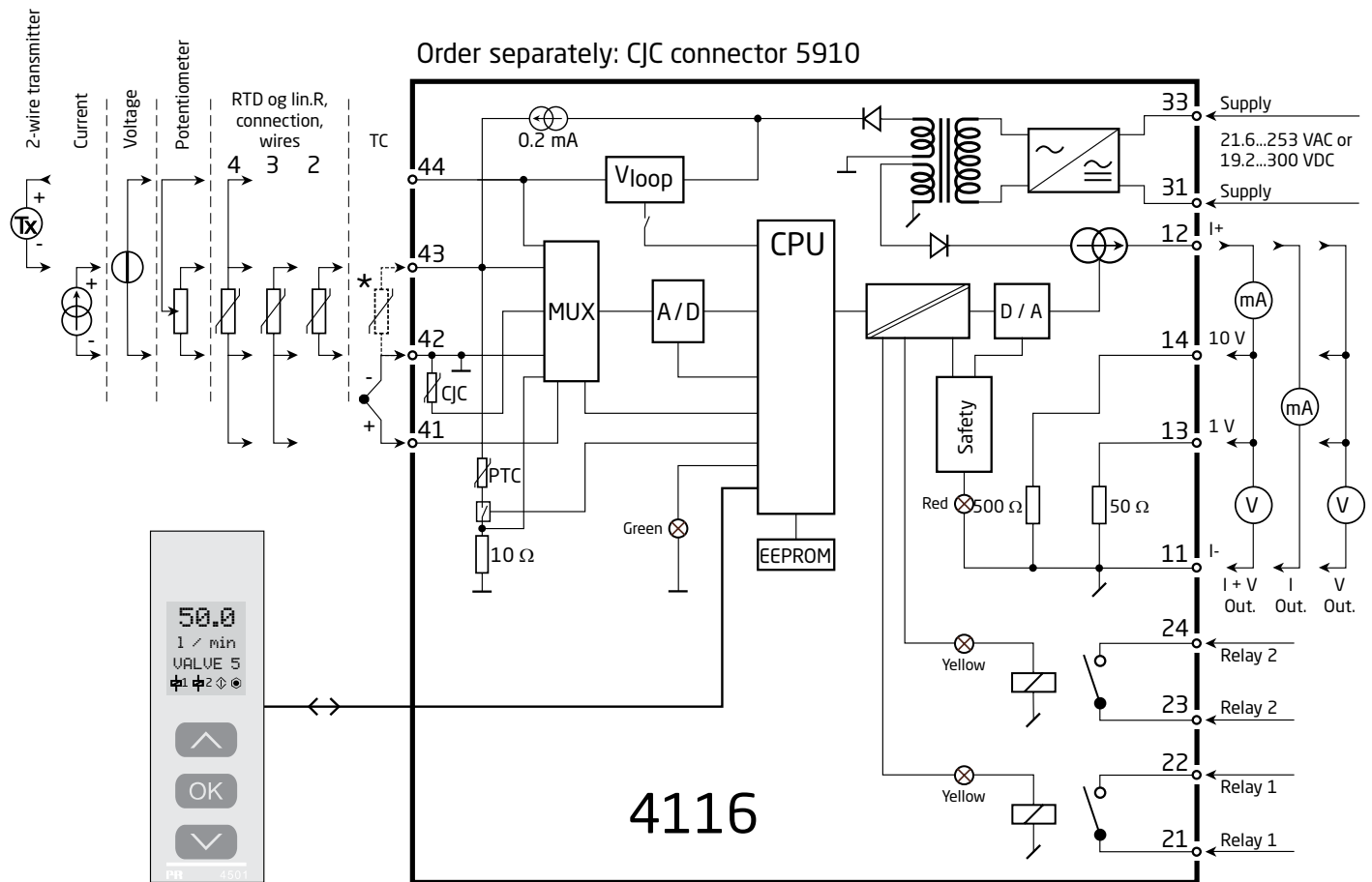
Block diagram:



Order codes:

4116 = Universal transmitter
4501 = Display / programming front
4511 = Communication enabler

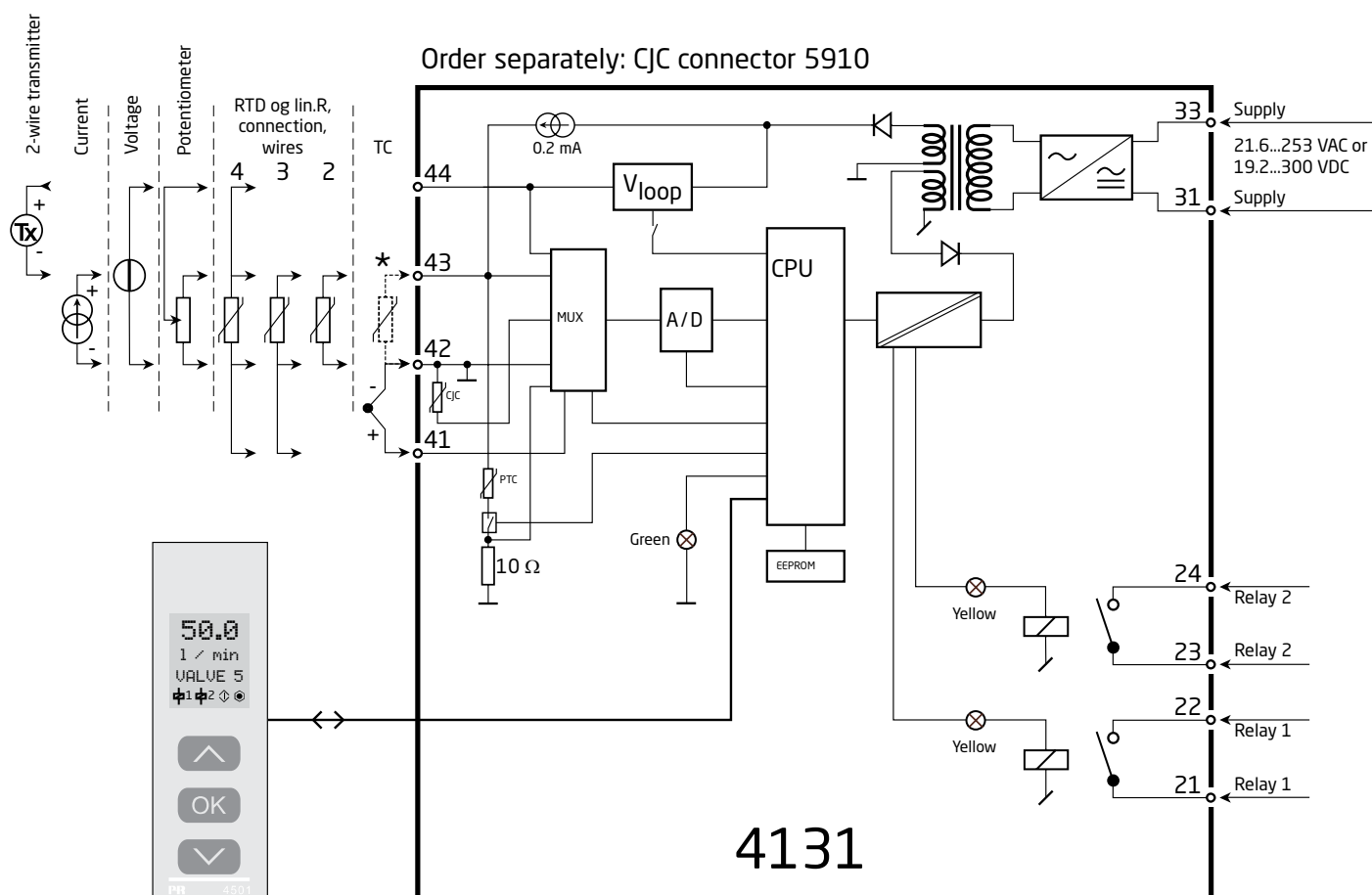
Block diagram:



Order codes:

4131 = Universal trip amplifier
4501 = Display / programming front

Block diagram:



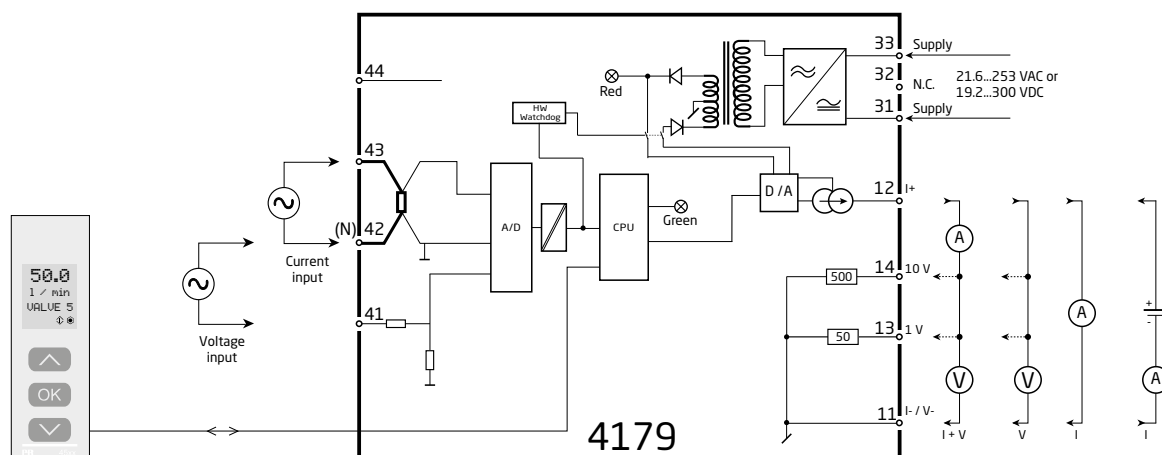
Order codes:

4179 = Universal AC / DC transmitter

4501 = Display / programming front

4511 = Communication enabler

Block diagram:



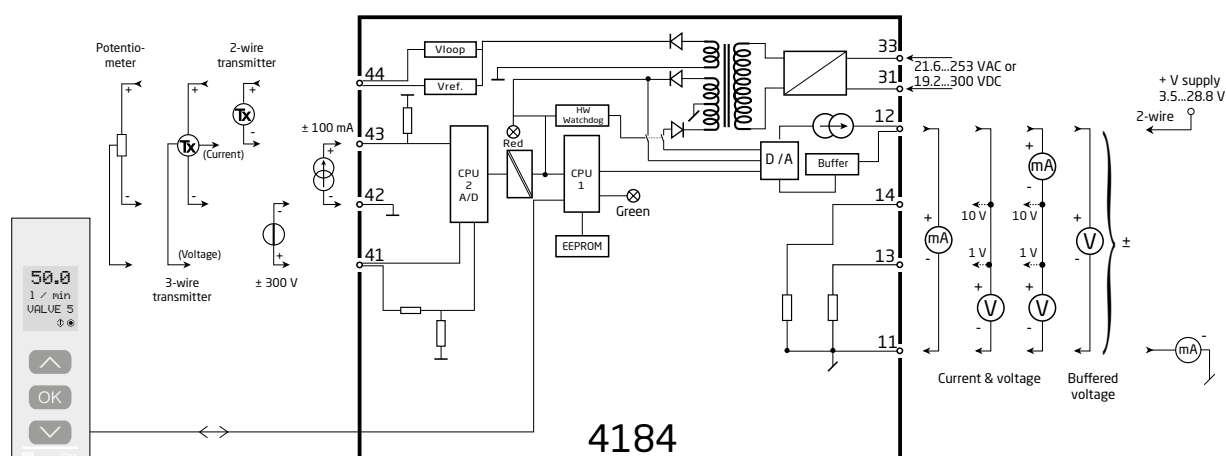
Order codes:

4184 = Universal uni-/bipolar signal transmitter

4501 = Display / programming front

4511 = Communication enabler

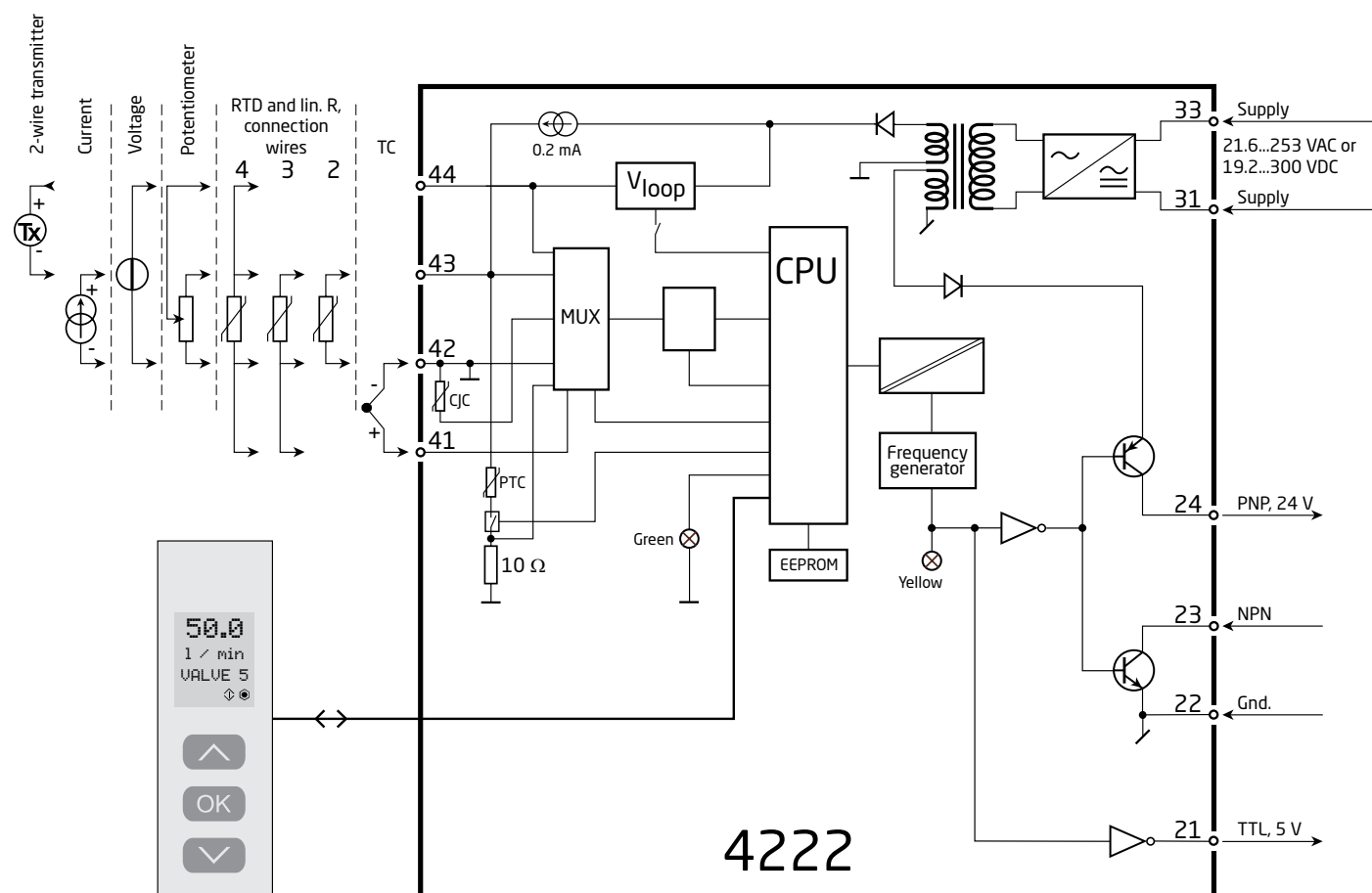
Block diagram:



Order codes:

4222 = Universal I/f converter
4501 = Display / programming front

Block diagram:

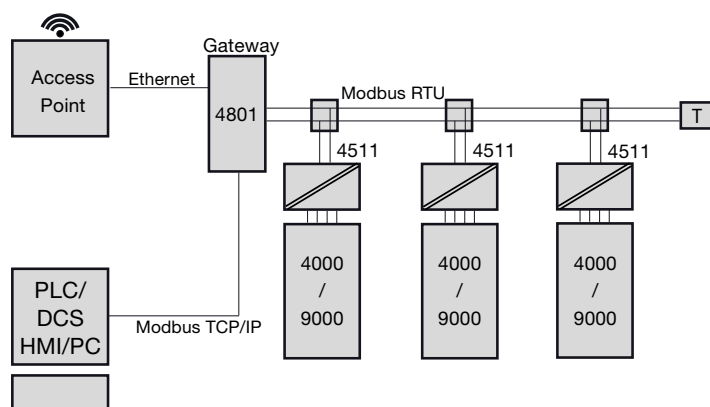
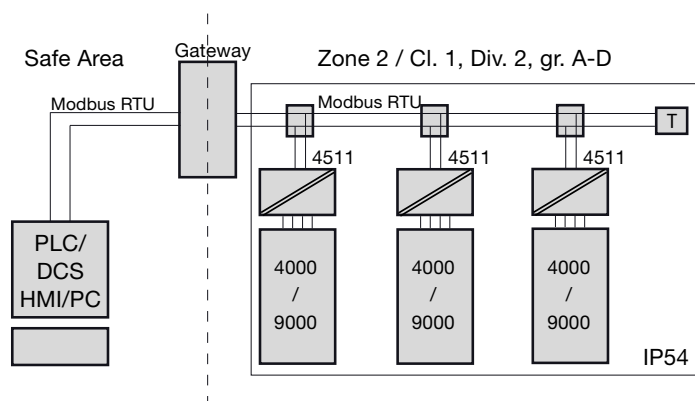
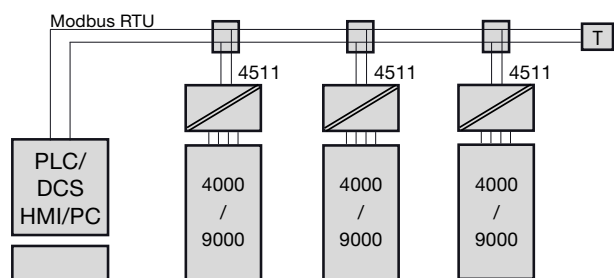


Order codes:

4511 = Modbus Communication Enabler

Application-/

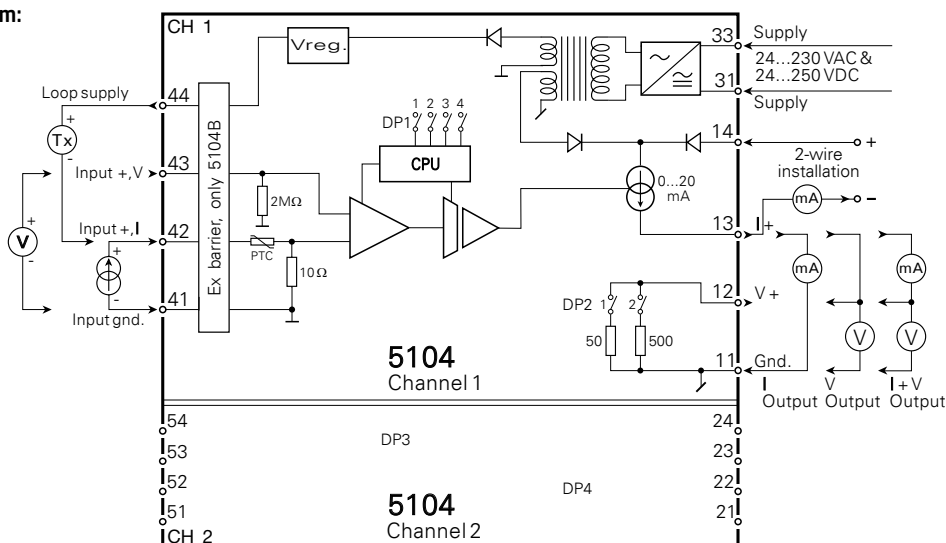
Block diagram:



Order: 5104

Type	Version	Input	Output	Channels
5104	Standard : A	0...20 mA : A	Special : 0	Single : A
		4...20 mA : B	0...20 mA : 1	Double : B
	[EEEx ia] II C IS, DIV. 1 : B	0...10 V : E	4...20 mA : 2	
		2...10 V : F	0...1 V : 4	
		Special : X	0.2...1 V : 5	
			0...10 V : 6	
			2...10 V : 7	

Block diagram:



DiIP-switch programming:

Factory-calibrated standard ranges:

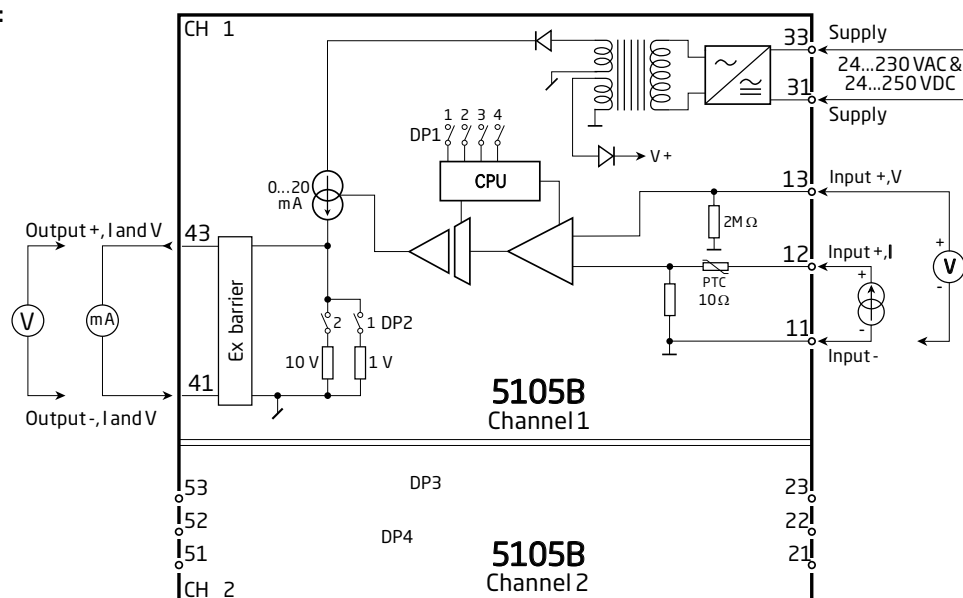
Output:	Input: (channel 2, DP 3 and DP 4)			
	0...20 mA	4...20 mA	0...10 V	2...10 V
0...20 mA	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2
4...20 mA	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2
0...1 V	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2
0.2...1 V	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2
0...10 V	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2
2...10 V	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2

When special measurement ranges are delivered, all DIP-switches for the channel in question are OFF.

Order: 5105B

Type	Input	Output	Channels
5105B	0...20 mA : A	Special : 0	Single : A
	4...20 mA : B	0...20 mA : 1	Double : B
	0...10 V : E	4...20 mA : 2	
	2...10 V : F	0...1 V : 4	
	Special : X	0.2...1 V : 5	
		0...10 V : 6	
		2...10 V : 7	

Block diagram:



DiIP-switch programming:

Factory-calibrated standard ranges:

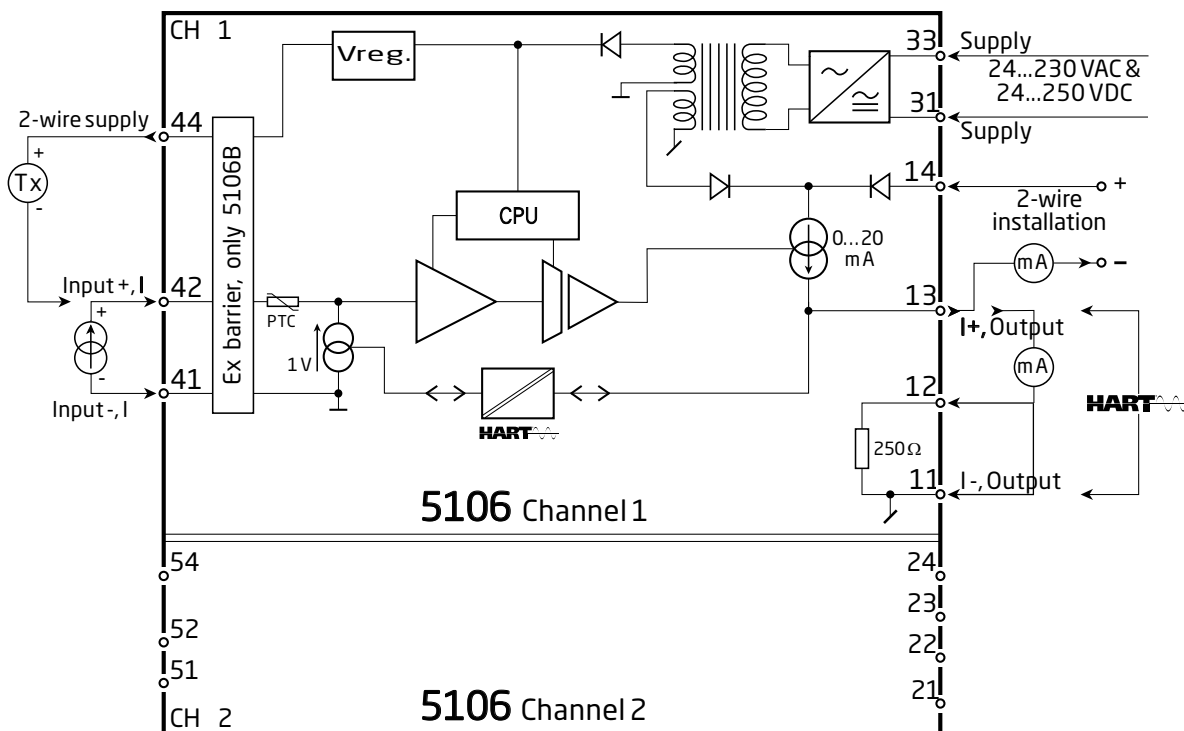
Output:	Input: (channel 2, DP 3 and DP 4)			
	0...20 mA	4...20 mA	0...10 V	2...10 V
0...20 mA	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2
4...20 mA	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2
0...1 V	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2		
0.2...1 V	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2		
0...10 V	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2
2...10 V	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2	On Off DP1 DP2 1 2 3 4 1 2

When special measurement ranges are delivered, all DIP-switches for the channel in question are OFF.

Order: 5106

Type	Version	Input	Output	Channels
5106	Standard : A [EEx ia] II C : B	4...20 mA : B	4...20 mA : 2 20...4 mA : 9	Single : A Double : B

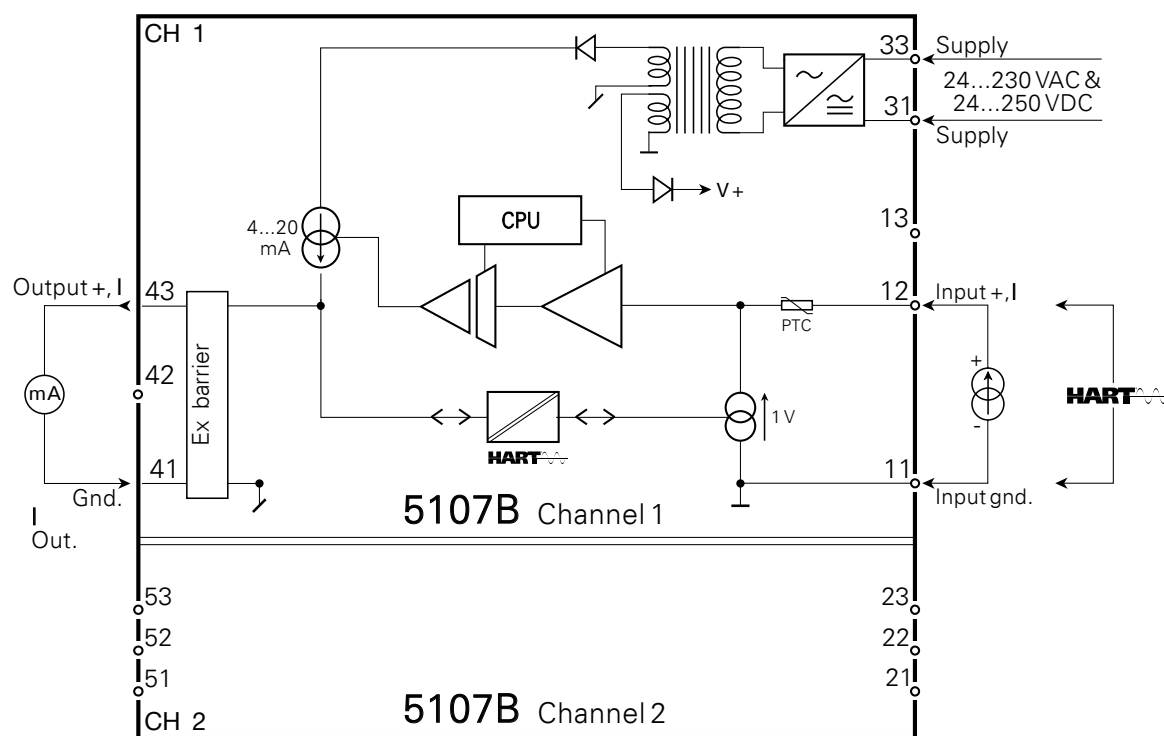
Block diagram:



Order: 5107B

Type	Input	Output	Channels
5107B	4...20 mA : B	4...20 mA : 2 20...4 mA : 9	Single : A Double : B

Block diagram:

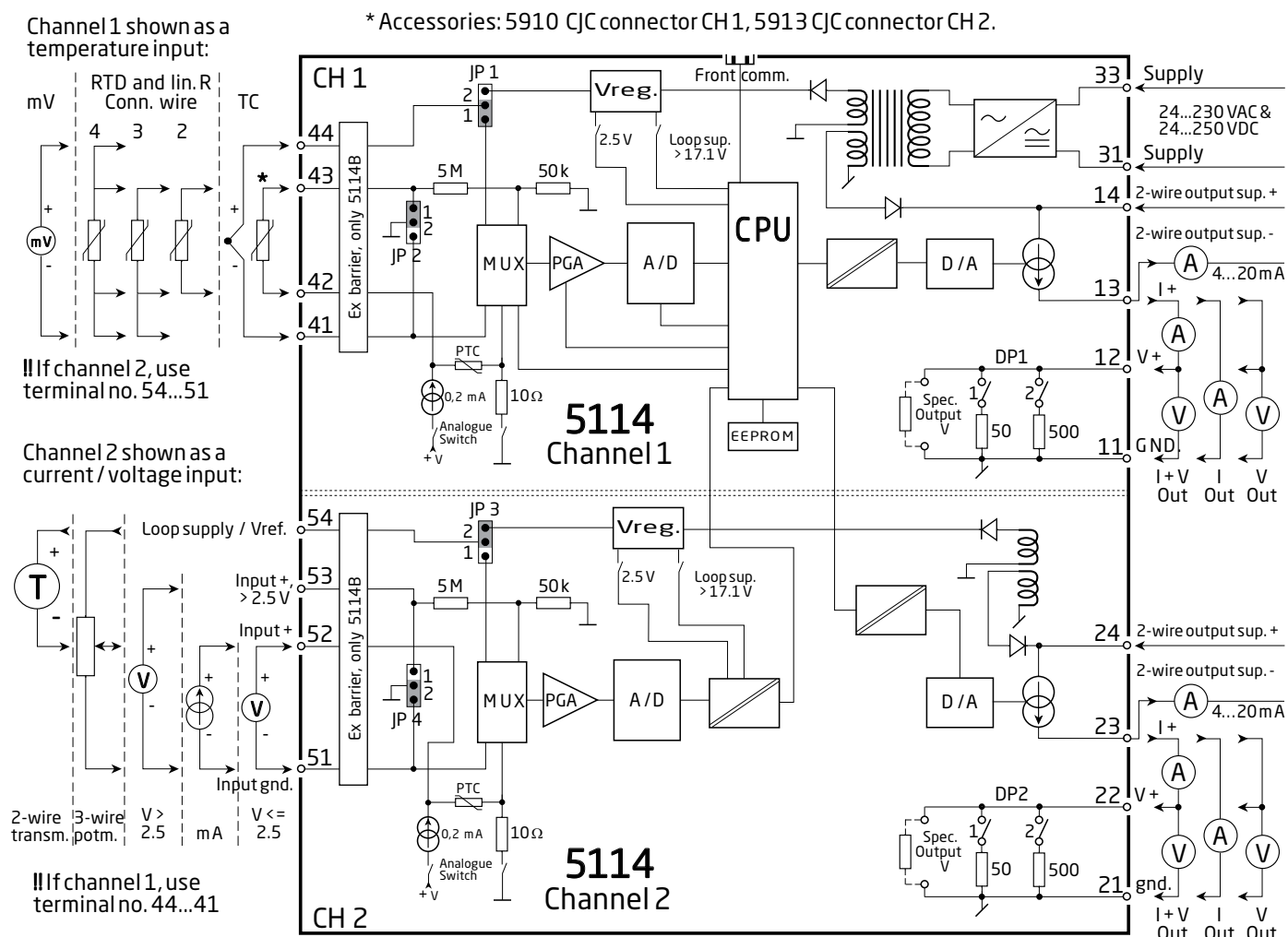


Order : 5114

Type	Version	Input	Channels
5114	Standard : A	RTD / TC / R / mA / V / mV : _	Single : A
	[EEx ia] IIC : B	RTD / TC / mV / R : 1	Double : B
		mA / V / mV : 2	
		Channel 1, RTD / TC / mV / R : 3	
		Channel 2, mA / V / mV : 3	

Note! For TC inputs with internal CJC, remember to order the CJC-terminals type 5910 / 5910 Ex (ch. 1) and 5913 / 5913 Ex (ch.2).

Block diagram:



Selection of input type: (5114A)

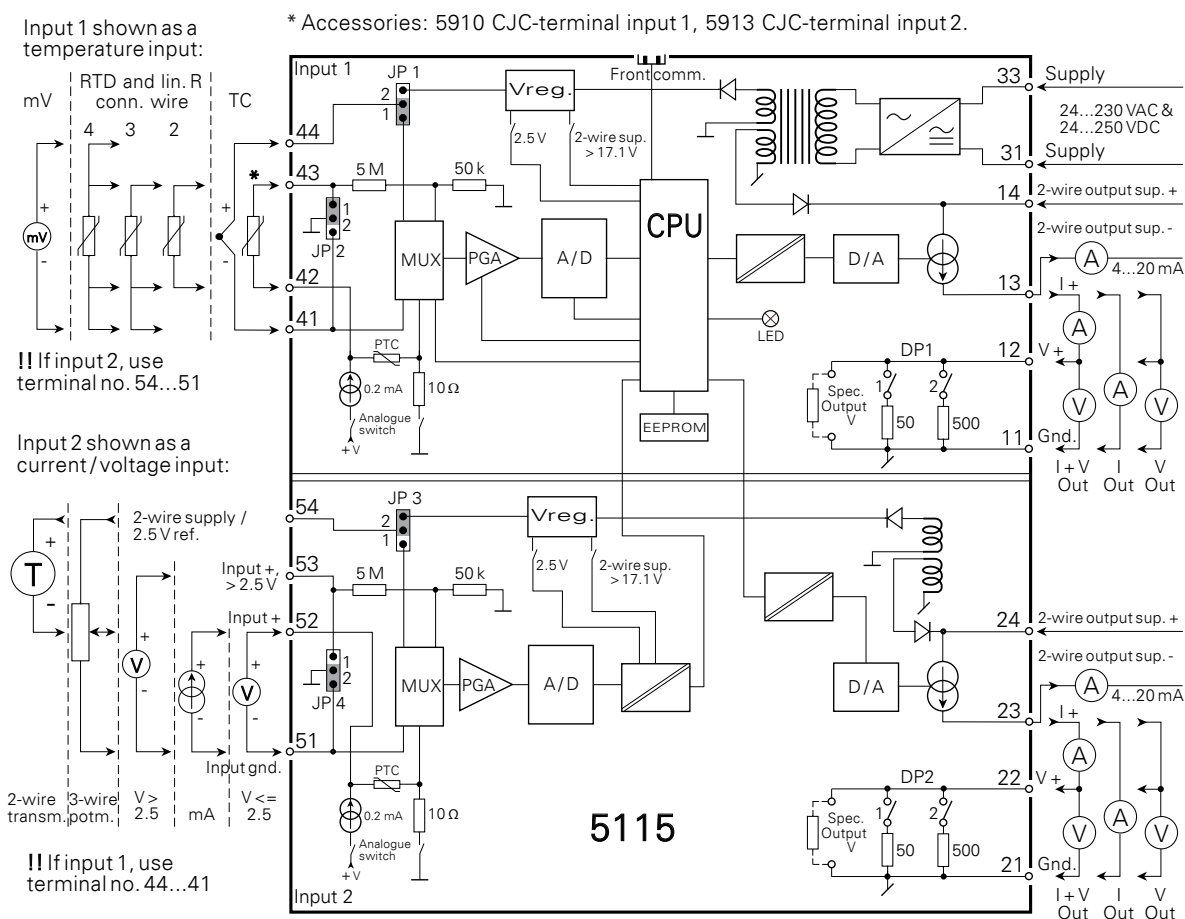
Input	JP 1	JP 2	JP 3	JP 4
Temperature channel 1	1	1	-	-
Temperature channel 2	-	-	1	1
Current / voltage channel 1	2	2	-	-
Current / voltage channel 2	-	-	2	2

Order: 5115

Type	Version	Input
5115	Standard : A	RTD / TC / mV / R / mA / V : _
	ATEX Ex : B	RTD / TC / mV / R : 1 mA / V / mV : 2 Input 1, RTD / TC / mV / R : 3 Input 2, mA / V / mV : 3

***NB!** Please remember to order CJC connectors type 5910Ex (input 1) and 5913Ex (input 2) for TC inputs with an internal CJC.

Block diagram:



Selection of input type: (5115A)

Input	JP 1	JP 2	P 3	JP 4
Temperature input 1	1	1	-	-
Temperature input 2	-	-	1	1
Current / voltage input 1	2	2	-	-
Current / voltage input 2	-	-	2	2

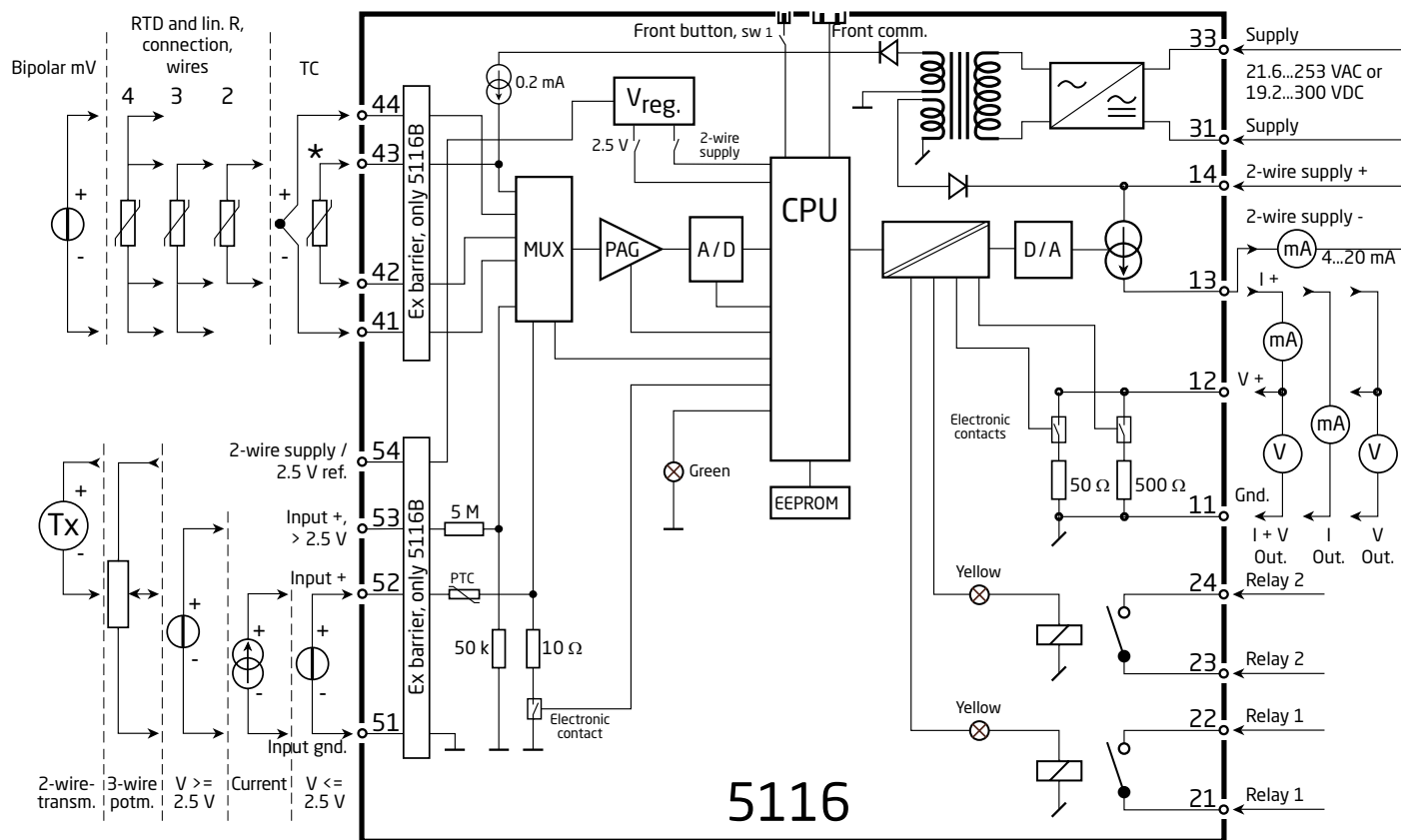
Order: 5116

Type	Version
5116	Standard.....: A ATEX Ex and FM.....: B

***NB!** Please remember to order CJC connectors type 5910/5910Ex for TC inputs with internal CJC

Block diagram:

* Accessories: CJC connectors type 5910 / 5910 Ex



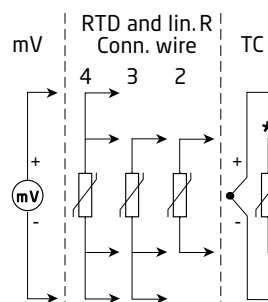
Order: 5131

Type	Version	Input	Channels
5131	Standard : A	RTD / TC / R / mA / V / mV : _	Single : A
	[EEx ia] IIC : B	RTD / TC / mV / R : 1	Double : B
		mA / V / mV : 2	
		Channel 1, RTD / TC / mV / R	
		Channel 2, mA / V / mV : 3	

Note! For TC inputs with internal CJC, remember to order the CJC connectors type 5910 / 5910 Ex (ch. 1) and 5913 / 5913 Ex (ch. 2).

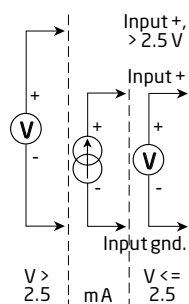
Block diagram:

Channel 1 shown as a temperature input:



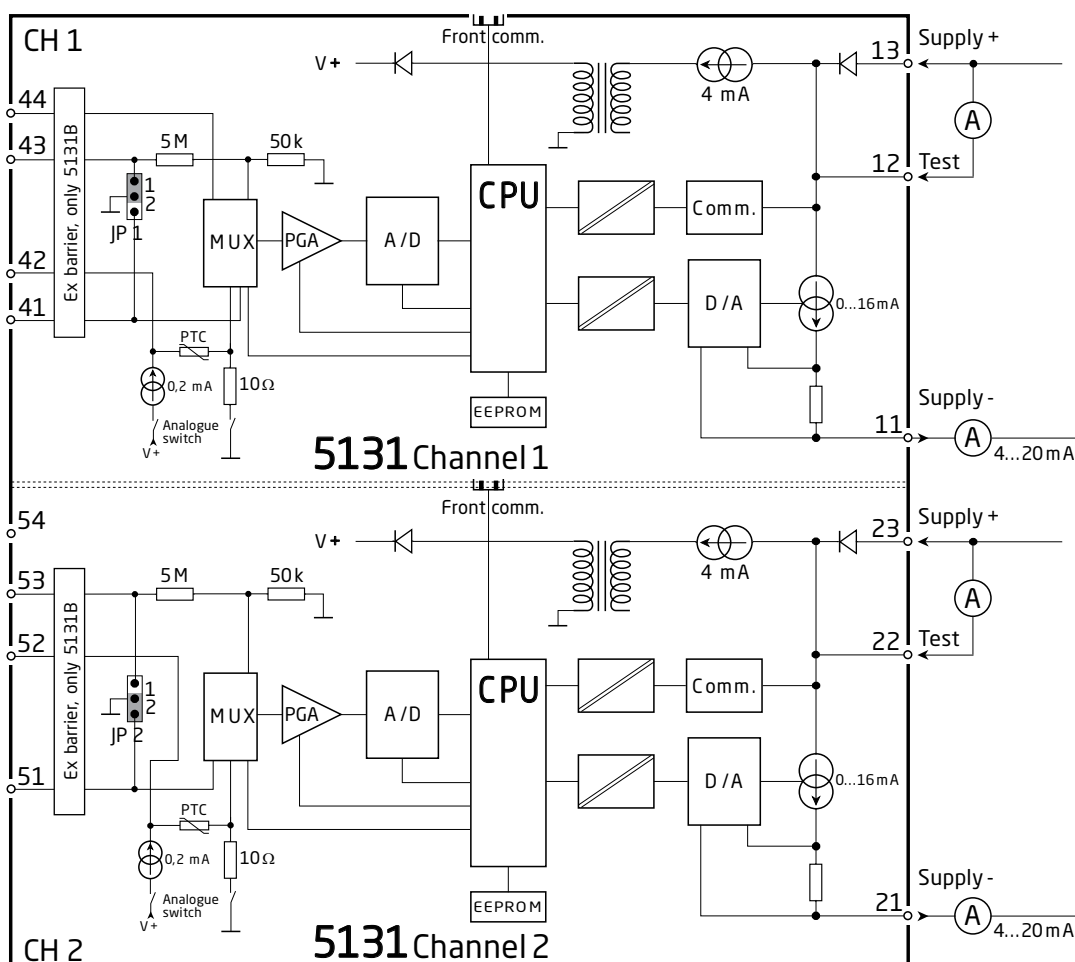
!! If channel 2, use terminal no. 54...51

Channel 2 shown as a current/voltage input:



!! If channel 1, use terminal no. 44...41

* Accessories: 5910 CJC connector CH1, 5913 CJC connector CH2.



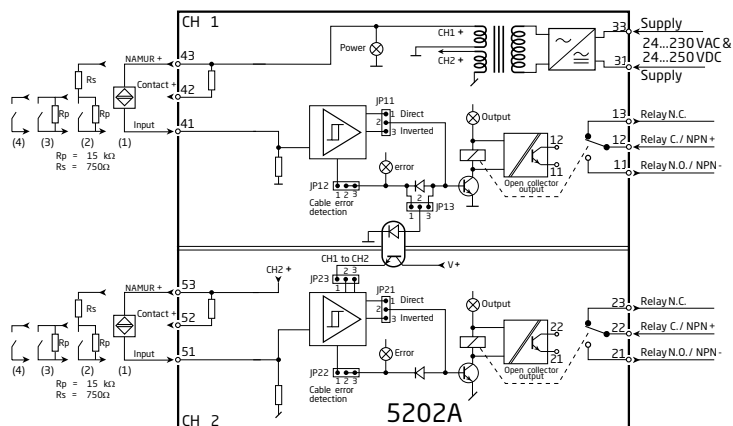
Selection of input type: (5131A)

Input	JP 1	JP 2
Temperature channel 1	1	-
Temperature channel 2	-	1
Current / voltage channel 1	2	-
Current / voltage channel 2	-	2

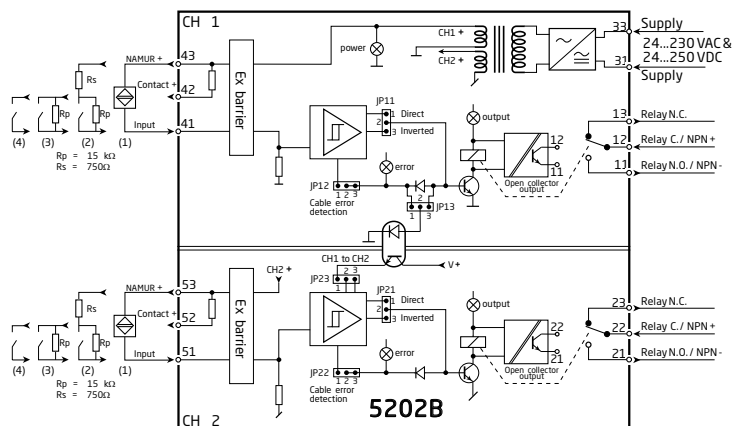
Order: 5202

Type	Version	Output
5202	Standard : A	Open collector NPN : 1
	ATEX Ex : B	2x1 relay : 2
		2x2 relays : 4

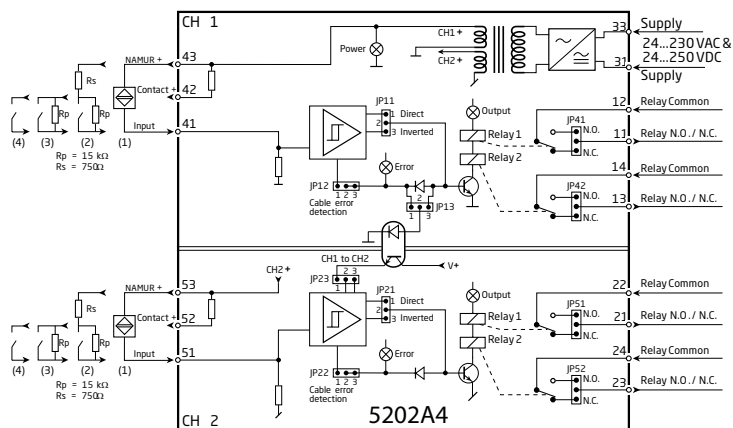
Block diagram, 5202A1 & A2:



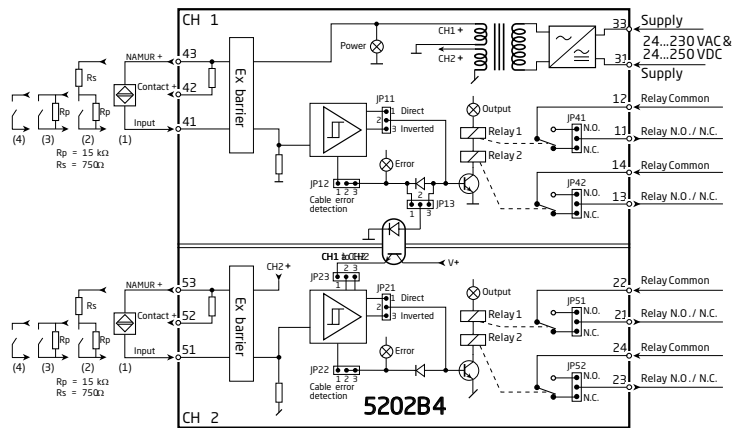
Block diagram, 5202B1 & B2:



Block diagram, 5202A4:



Block diagram, 5202B4:



Jumper programming:

Signal transmission	Channel 1 JP 11	Channel 2 JP 21	Cable error detection	Channel 1 JP 12	Channel 2 JP 22
Direct	1 2 3	1 2 3	ON	1 2 3	1 2 3
Inverted	1 2 3	1 2 3	OFF	1 2 3	1 2 3

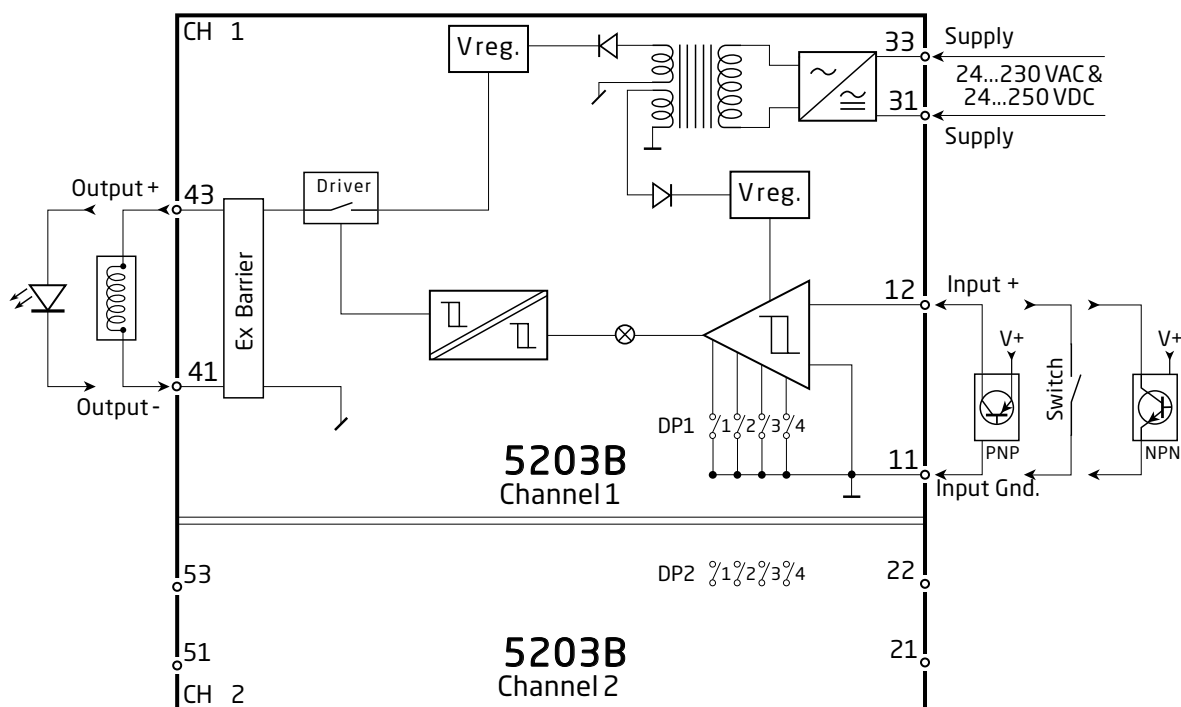
Channel 1 signal to channel 2	Channel 1 JP 13	Channel 2 function	Channel 2 JP 23
Cable error	1 2 3	Channel 1 to channel 2 ON, input 2 disabled	1 2 3
Signal	1 2 3	Channel 1 to channel 2 OFF, input 2 active	1 2 3

5202B4		
Relay function	N.O.	N.C.
Channel 1	Relay 1, JP41	1 2 3
	Relay 2, JP42	1 2 3
Channel 2	Relay 1, JP51	1 2 3
	Relay 2, JP52	1 2 3

Order: 5203B

Type	Input	Ex barrier	Channels
5203B	PNP : 1	[EEx ia] type : F	Single : 1
	Switch : 2		
	NPN : 3		
		[EEx ia] type : H	Single : 1
		[EEx ia] type : I	Double : 2

Block diagram:



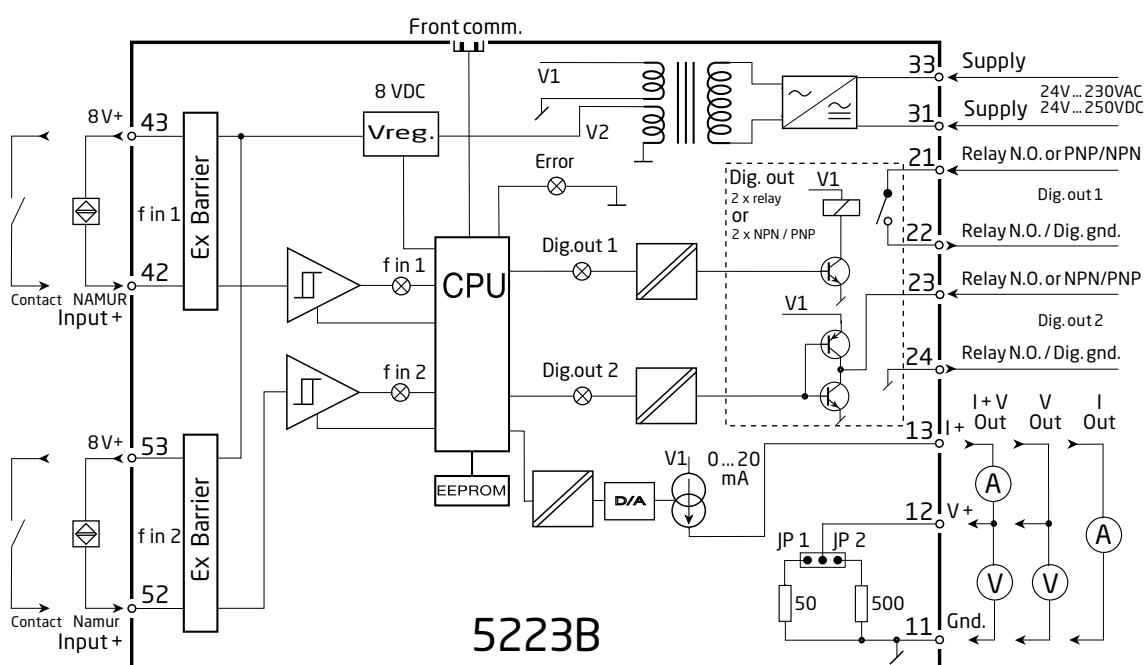
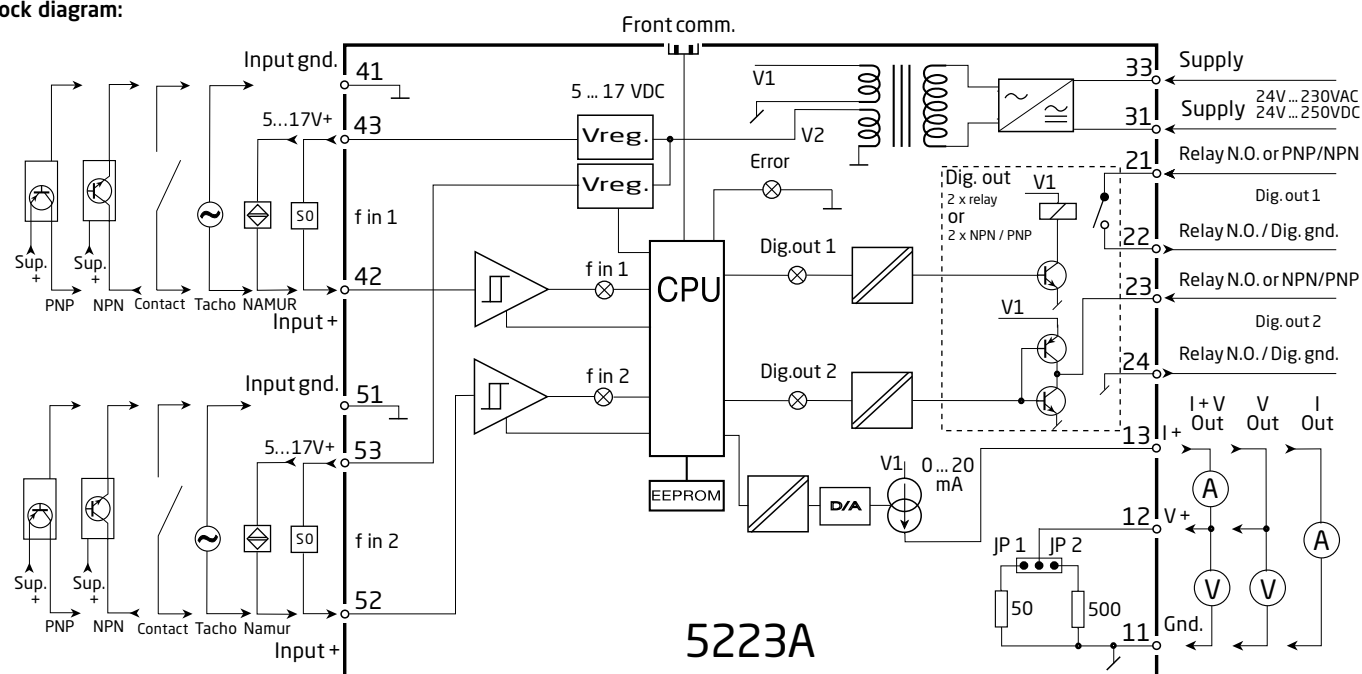
DIP-switch programming:

Input: (channel 1 = DP 1, channel 2 = DP 2)			
Open collector PNP, direct	Open collector PNP, inverted	Switch and open collector NPN, direct	Switch and open collector NPN, inverted
DP On Off 1 2 3 4	DP On Off 1 2 3 4	DP On Off 1 2 3 4	DP On Off 1 2 3 4

Order: 5223

Type	Version	Output
5223	Standard : A	Analogue + NPN / PNP : 1
	[EEx ia] IIC : B	Analogue + Relay output : 2

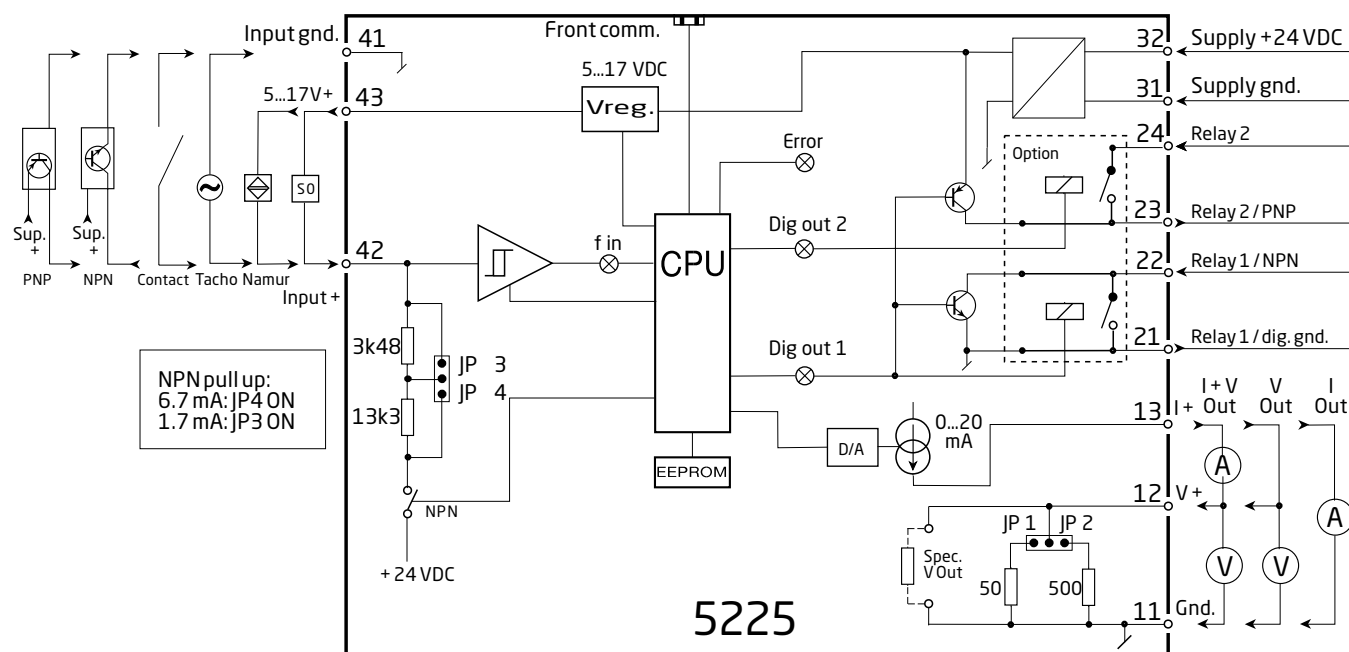
Block diagram:



Order : 5225

Type	Version	Output
5225	Standard : A	Analogue + NPN / PNP : 1 Analogue + relay output : 2

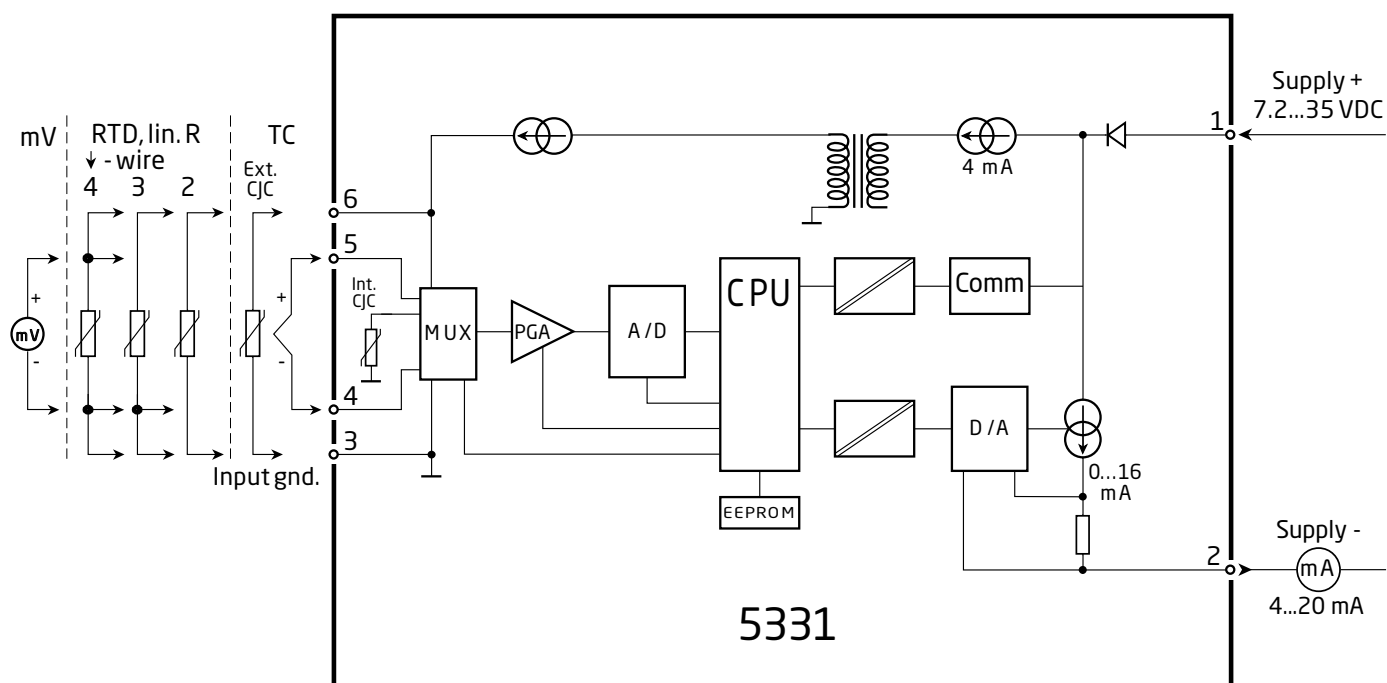
Block diagram:



Order: 5331

Type	Version	Ambient temperature	Galvanic isolation
5331	Standard : A CSA, FM, ATEX, : D IECEX & INMETRO	-40°C...+85°C : 3	1500 VAC : B

Block diagram:



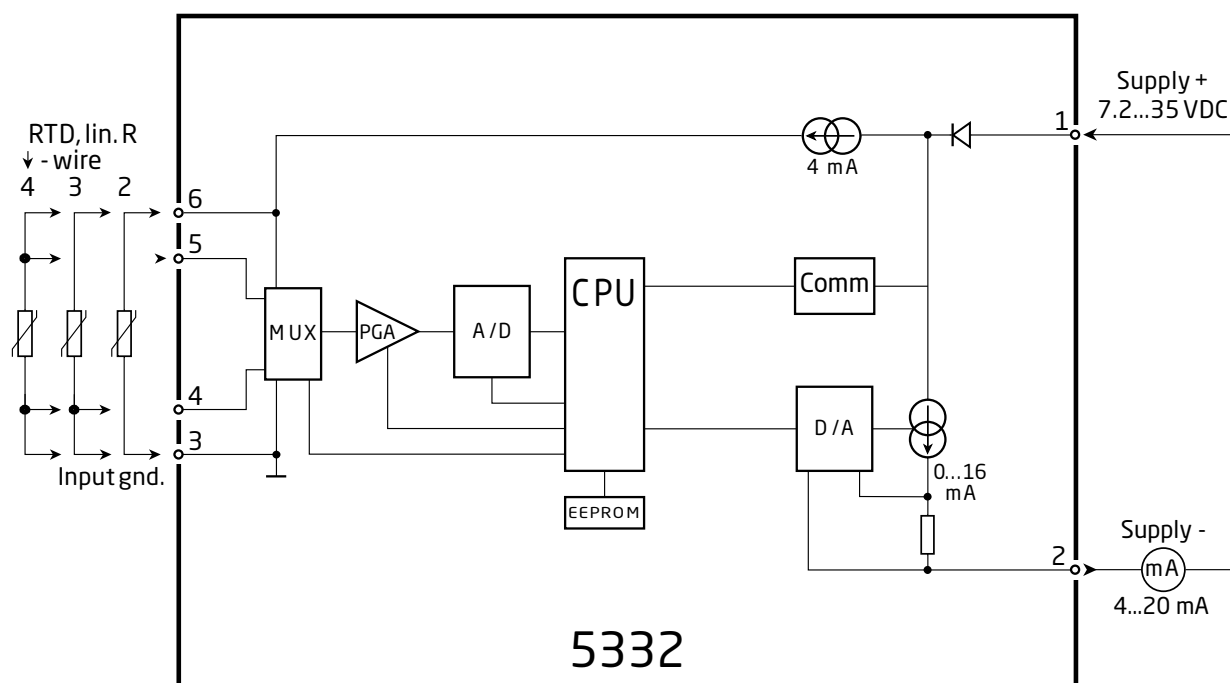
Order

Type	Version
5332	Simple, no approvals : N
	General purpose, Zone 2, ATEX, IECEx : A
	Hazardous area, Zone 0 / Div. 0, ATEX, IECEx, FM, CSA : D

Accessories

5909	= Loop Link USB interface and PReset Software
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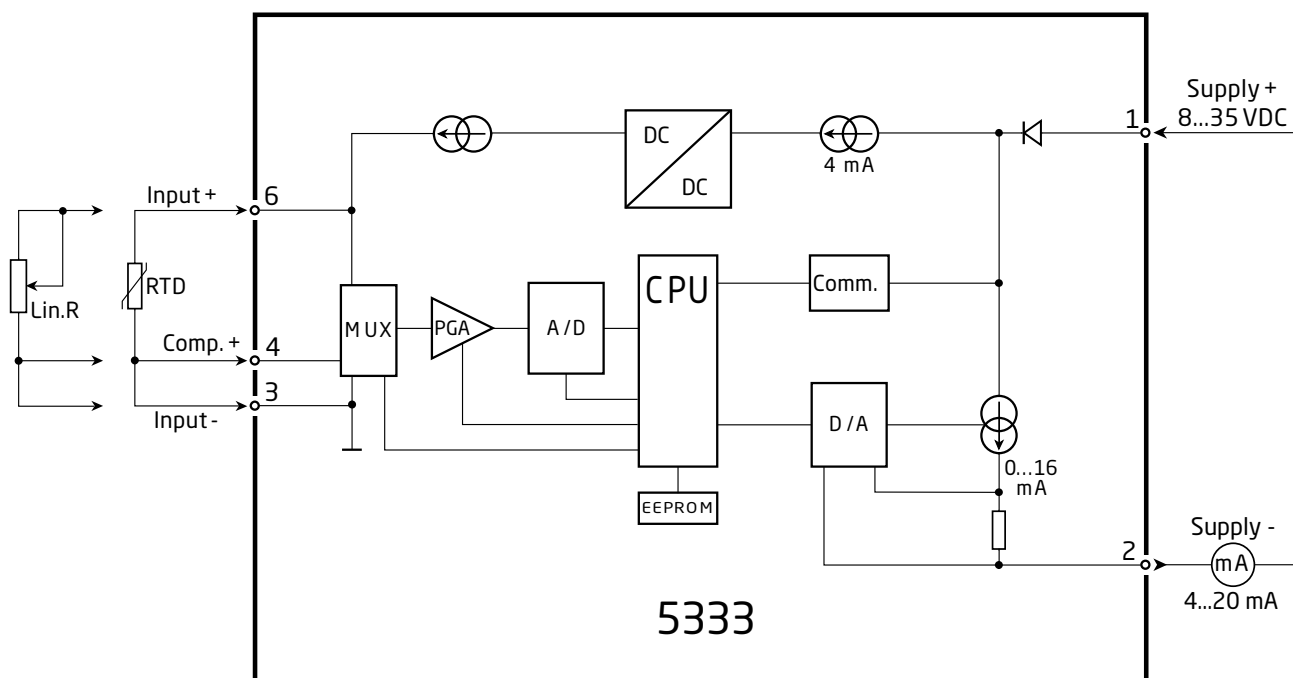
Block diagram:



Order: 5333

Type	Version
5333	Standard : A CSA, FM, ATEX, IECEx & INMETRO : D

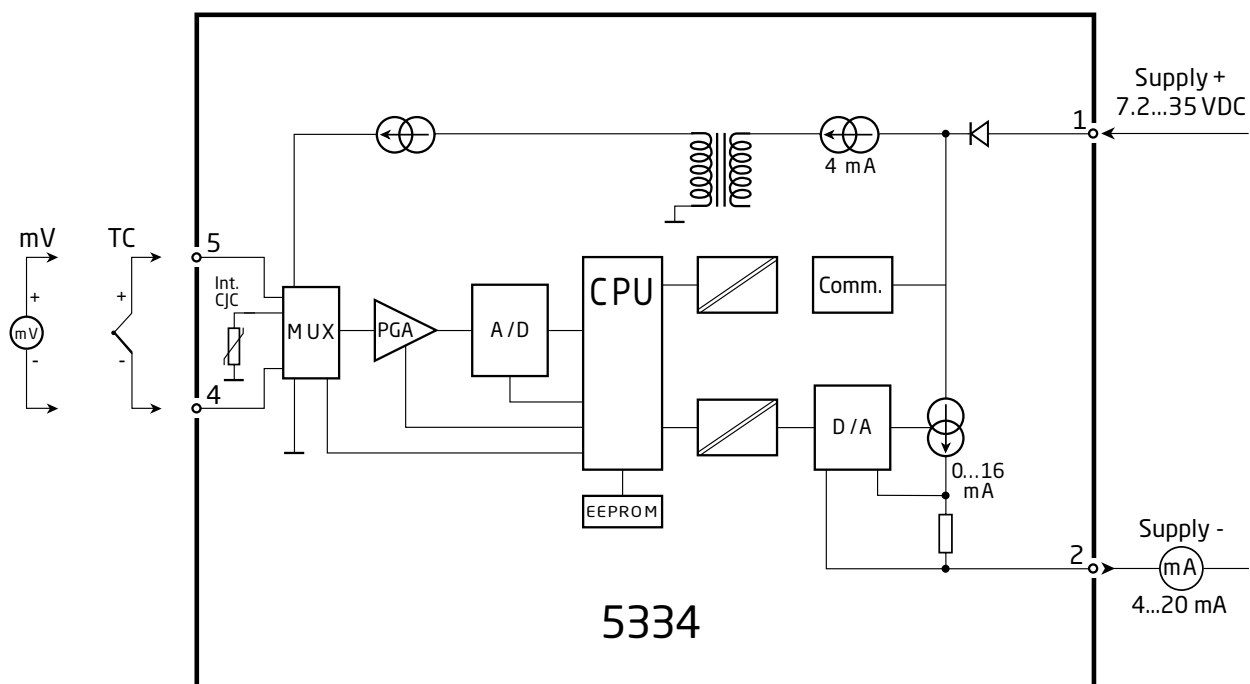
Block diagram:



Order: 5334

Type	Version	Ambient temperature	Galvanic isolation
5334	Standard : A ATEX Ex : B	-40°C...+85°C : 3	1500 VAC : B

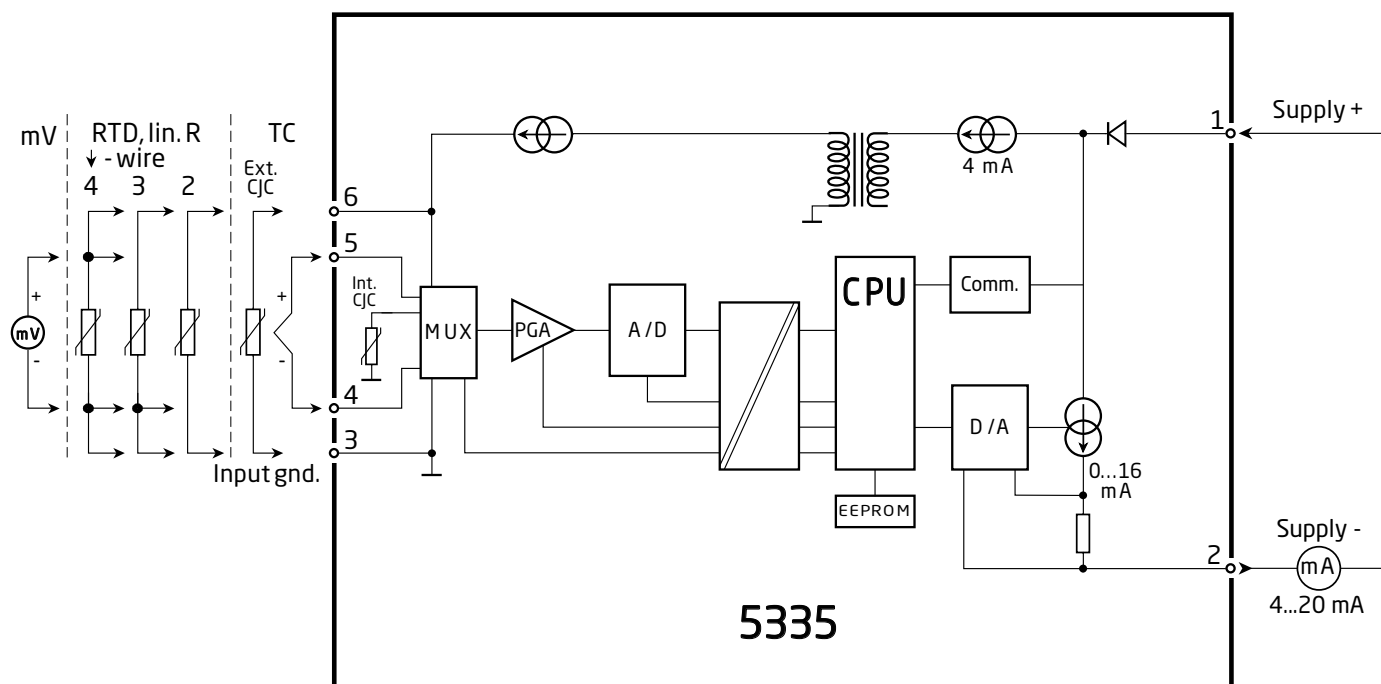
Block diagram:



Order: 5335

Type	Version
5335	Standard : A CSA, FM, ATEX, IECEx & INMETRO : D

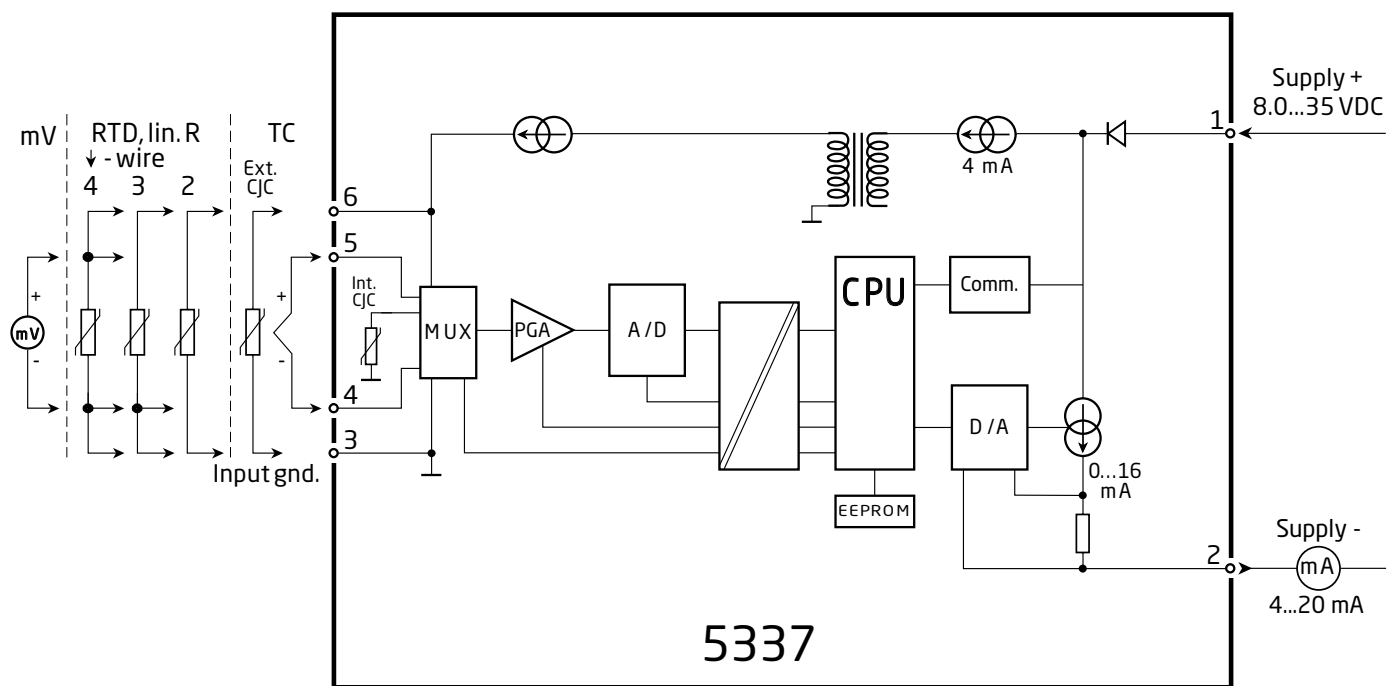
Block diagram:



Order :5337

Type	Version
5337	Standard : A CSA, FM, ATEX, IECEx & INMETRO : D

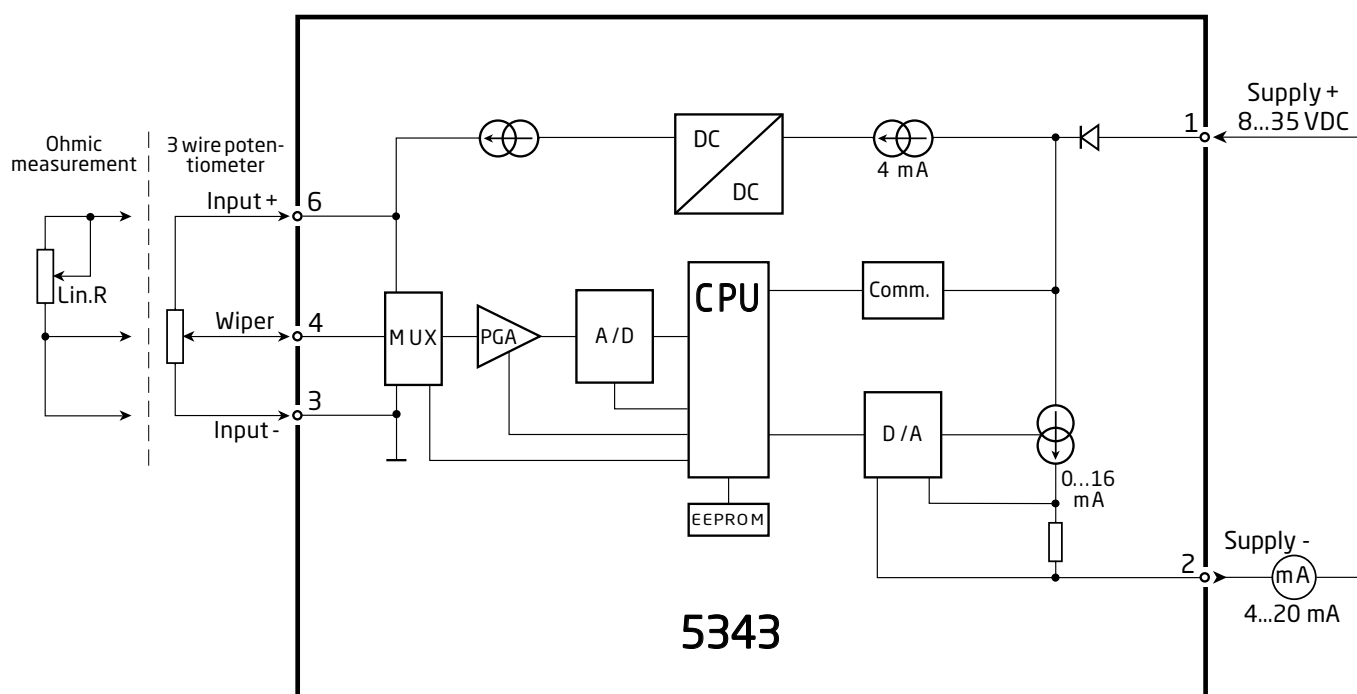
Block diagram 5337:



Order: 5343

Type	Version
5343	Standard : A
	ATEX, FM, IECEx & INMETRO : B

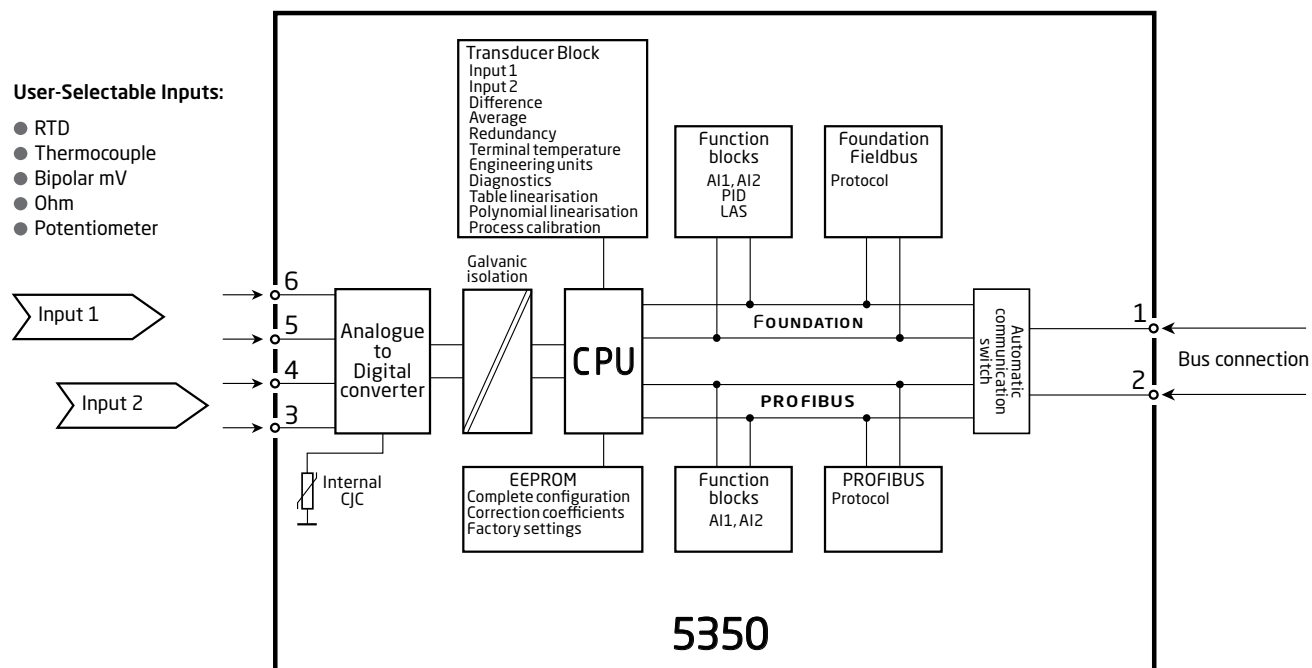
Block diagram:



Order: 5350

Type	Version
5350	Standard : A
	ATEX, FM and CSA : B

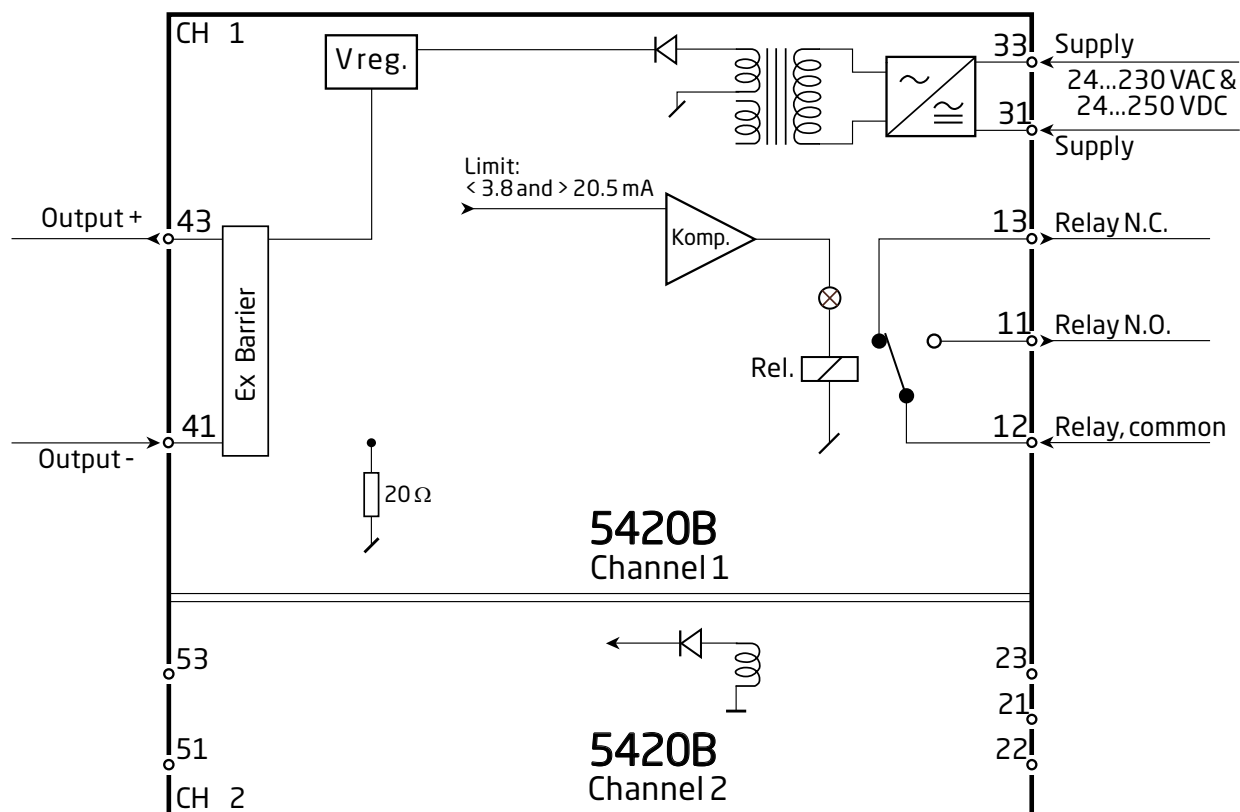
Block diagram:



Order: 5420B

Type	Channels
5420B	Double : 2

Block diagram:



Order

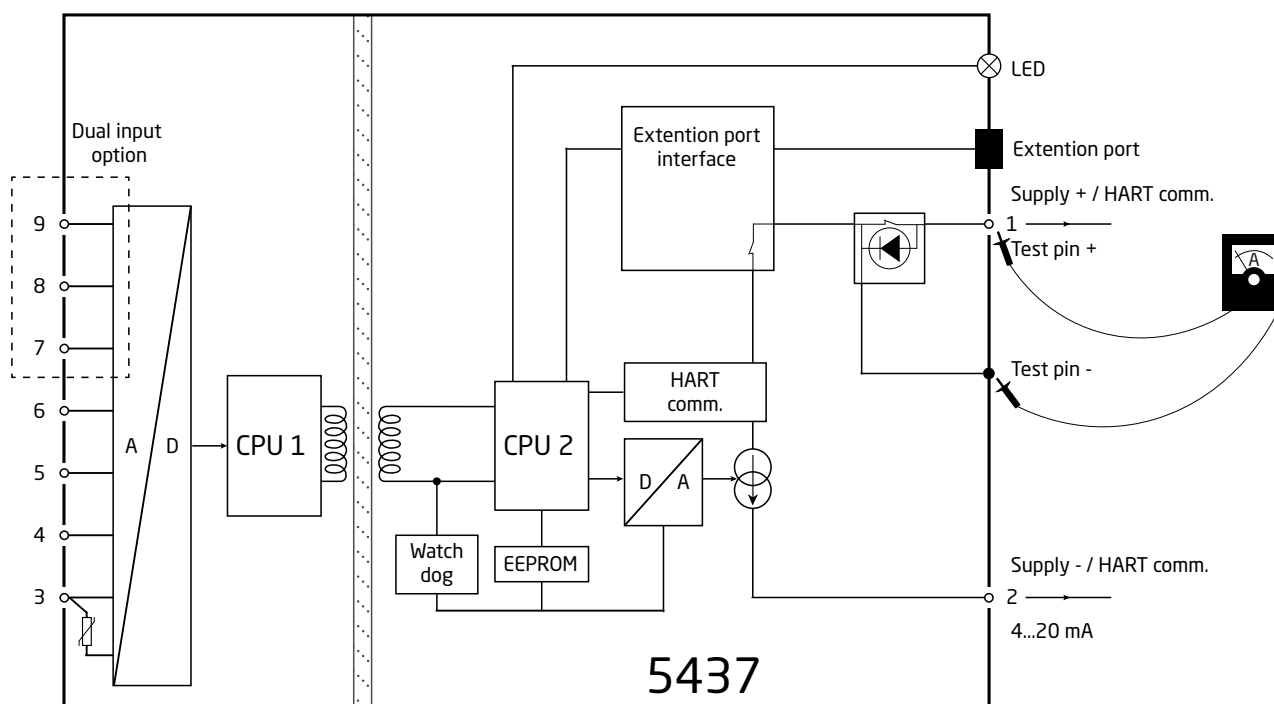
Type	Version	Inputs	SIL approval	Marine approval
5437	Standard / Zone 2 / DIV. 2 : A	Single input (4 terminals) : 1	SIL : S	Yes : M
	Zone 0, 1, 2, 20, 21, 22, M1 (ATEX only) : B	Dual input (7 terminals) : 2	No SIL : -	No : -
	Zone 0, 1, 2, 20, 21, 22, M1 / DIV. 1, DIV. 2 : D			

Accessories

5909 = Loop Link USB interface and PRset Software

276USB = HART modem with USB connection

Block diagram:



Order: 5531

Type	Input signal area classification	Field enclosure
5531A	4...20 mA from safe and zone 2	No
5531B1	4...20 mA from safe, zone 2 and 22	Yes
5531B	4...20 mA from zone 0	No
5531B2	4...20 mA from zone 0 and 20	Yes

The 5531A display can be panel-mounted in the safe area or Ex Zone 2 (gas).

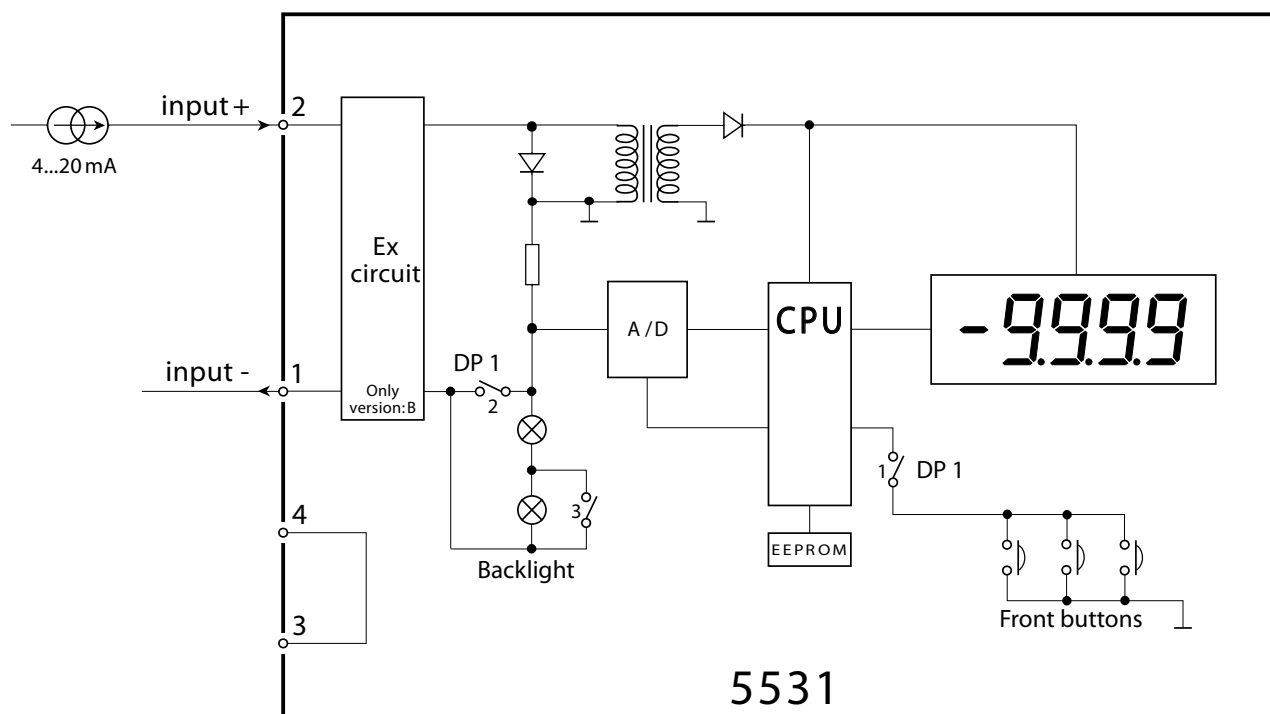
The 5531B1 Ex display includes the 8501 enclosure and can be mounted in Ex Zone 2 or 22 (gas or dust).

The 5531B2 includes the 8501 enclosure and can be mounted in Ex Zone 1, 2, 21 or 22 (gas or dust).

Accessories

Type	Specification
8335	Splash proof cover
8501	Field enclosure for 5531A

Block diagram:



Programming:

DP 1	Front keyboard	SW ON	SW OFF
	Keys locked	-	1
	Keys NOT locked	1	-

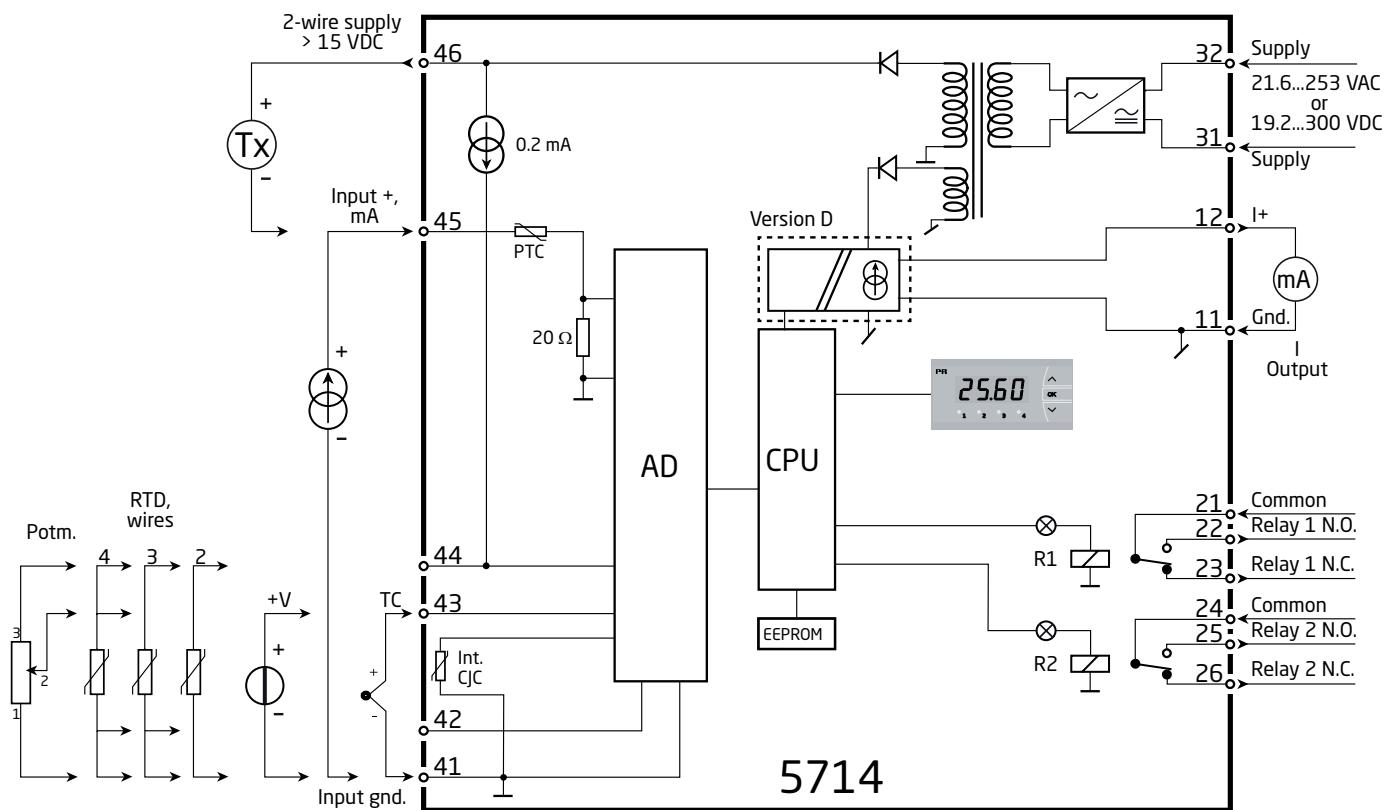
DP 1	Backlight	SW ON	SW OFF
	Off	2	-
	Half intensity	3	2
	Full intensity	-	2, 3

Order: 5714

Type	Version
5714	Standard : A
	2 relays : B
	Analog output : C
	Analog output and 2 relays . . . : D

NB! Please order the splash-proof cover separately.
Order no. 8335.

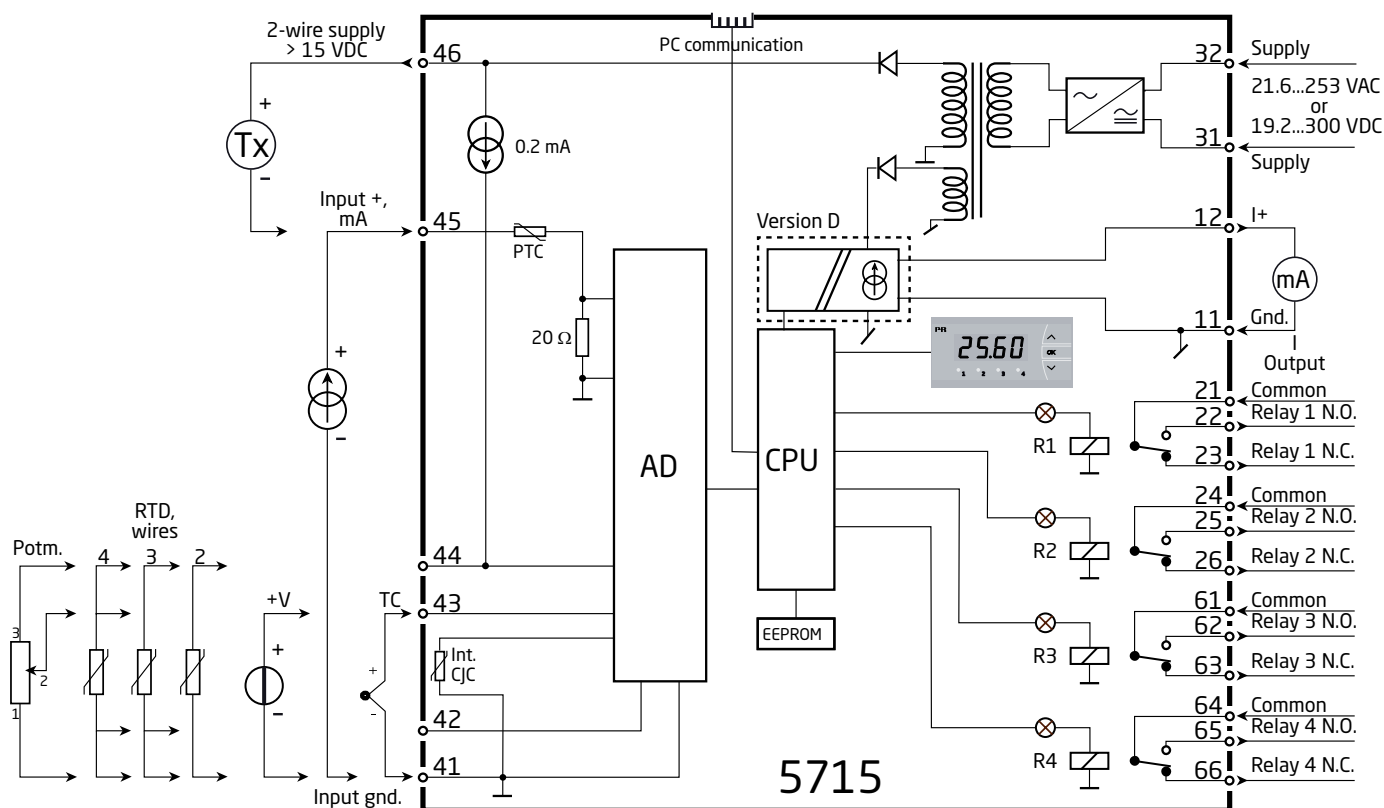
Block diagram:



Order: 5715

Type	Version
5715	4 relays.....: B Analog output and 4 relays.....: D

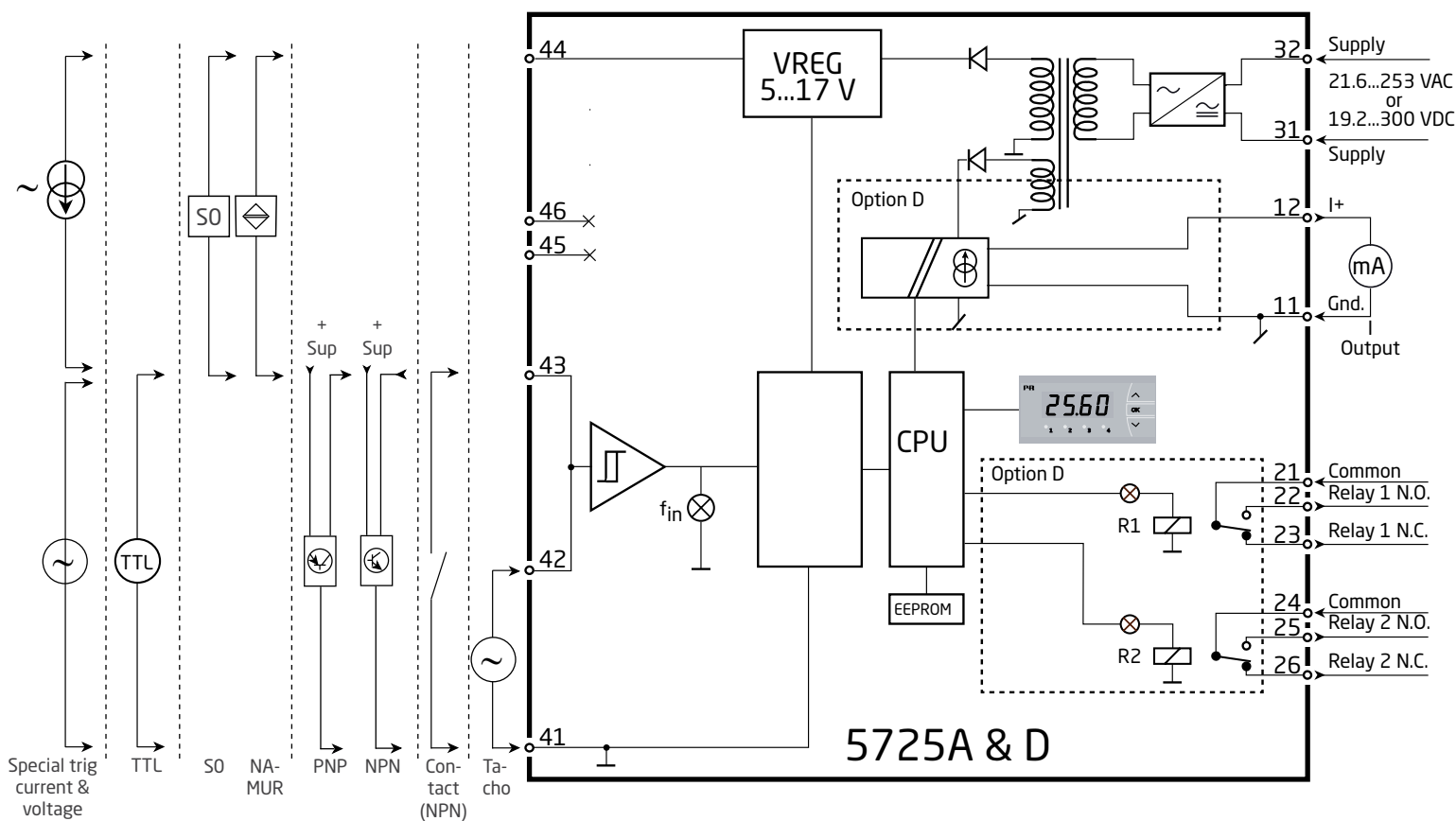
Block diagram:



Order: 5725

Type	Version
5725	Standard.....: A
	Analog output and 2 relays.....: D

Block diagram:



Order

Type	M12 connector	Output pins	PCB only
5802A1A2	No*	1-2	Yes
5802A2A2	Yes	1-2	Yes
5802A1A3	No*	1-3	Yes
5802A2A3	Yes	1-3	Yes

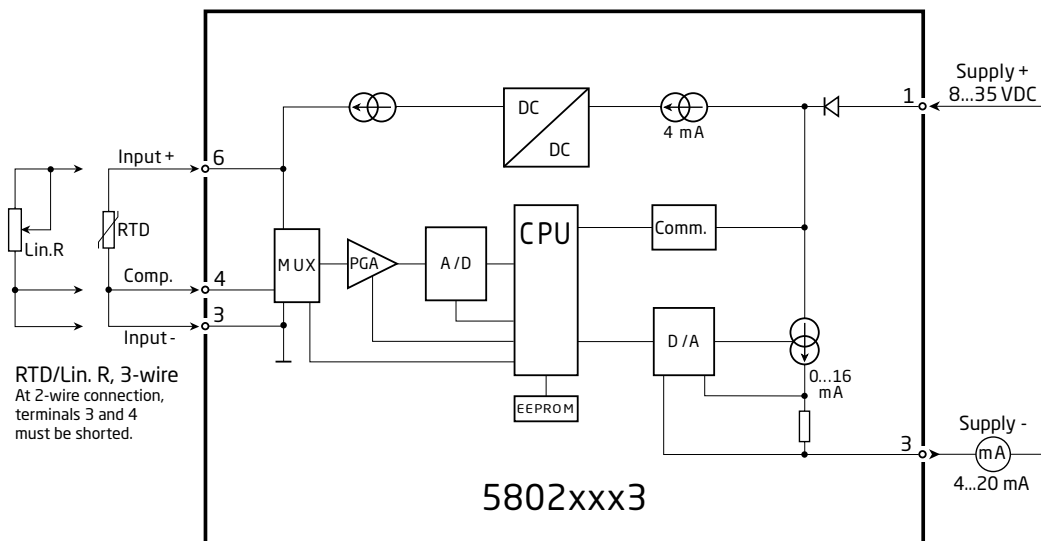
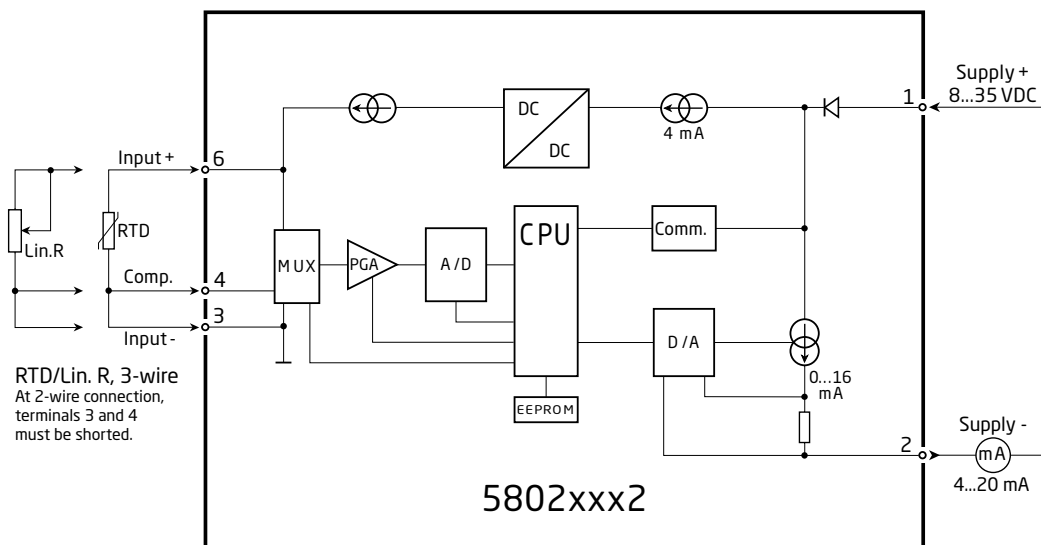
* Prepared for customer-mounted M12 connector.

NB: Please note that minimum order quantity per type is 40 pcs. and that only order quantities divisible by 40 are accepted.

Accessories

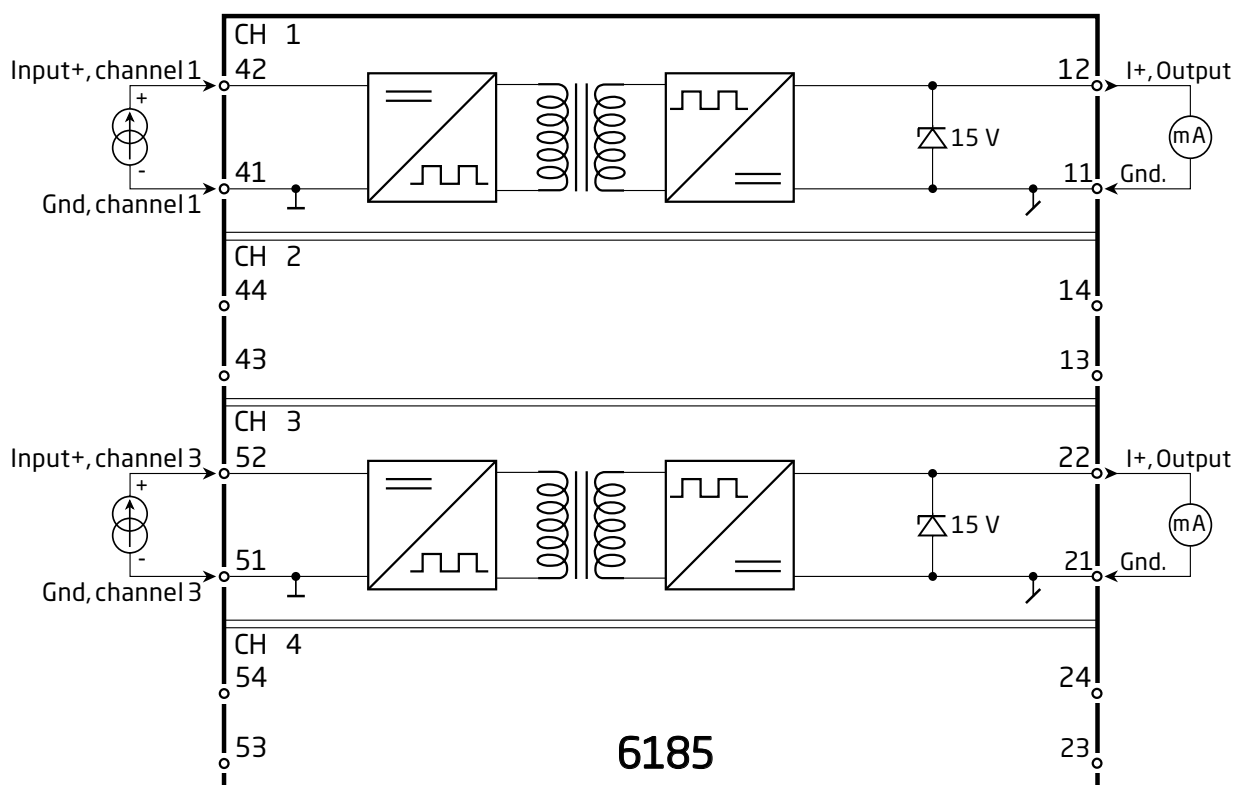
5909	= Loop Link USB interface and PReset Software
8509	= M12 interface cable for 5909 Loop Link

Block diagrams:



Type	Channels
6185	1 channel : A
	2 channels : B
	4 channels : D

Block diagram:

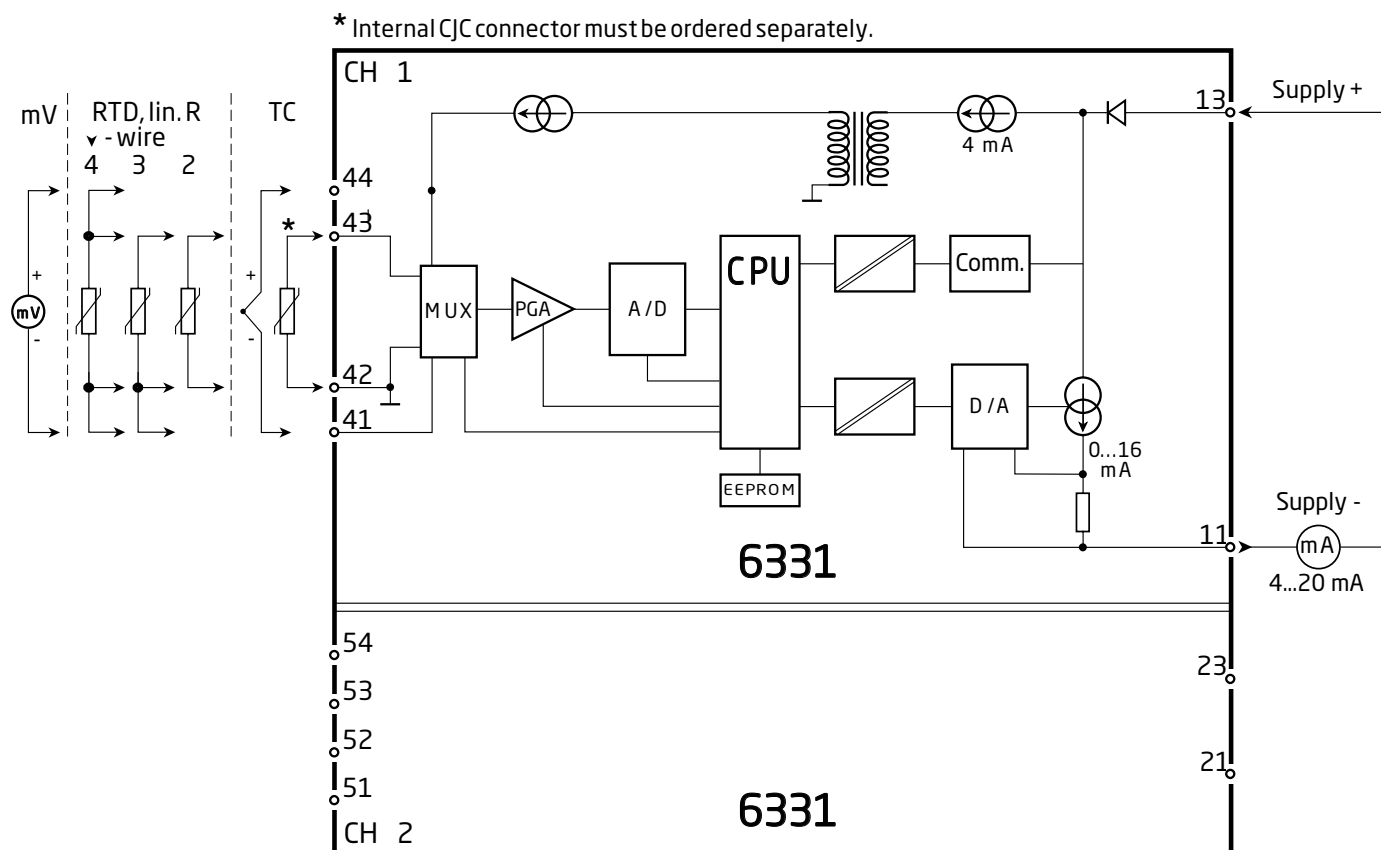


Order: 6331

Type	Version	Galvanic isolation	Channels
6331	Standard : A ATEX Ex : B	1500 VAC : 2	Single : A Double : B

***NB!** Please remember to order CJC connectors type 5910 / 5910Ex (channel 1) and 5913 / 5913Ex (channel 2) for TC inputs with an internal CJC.

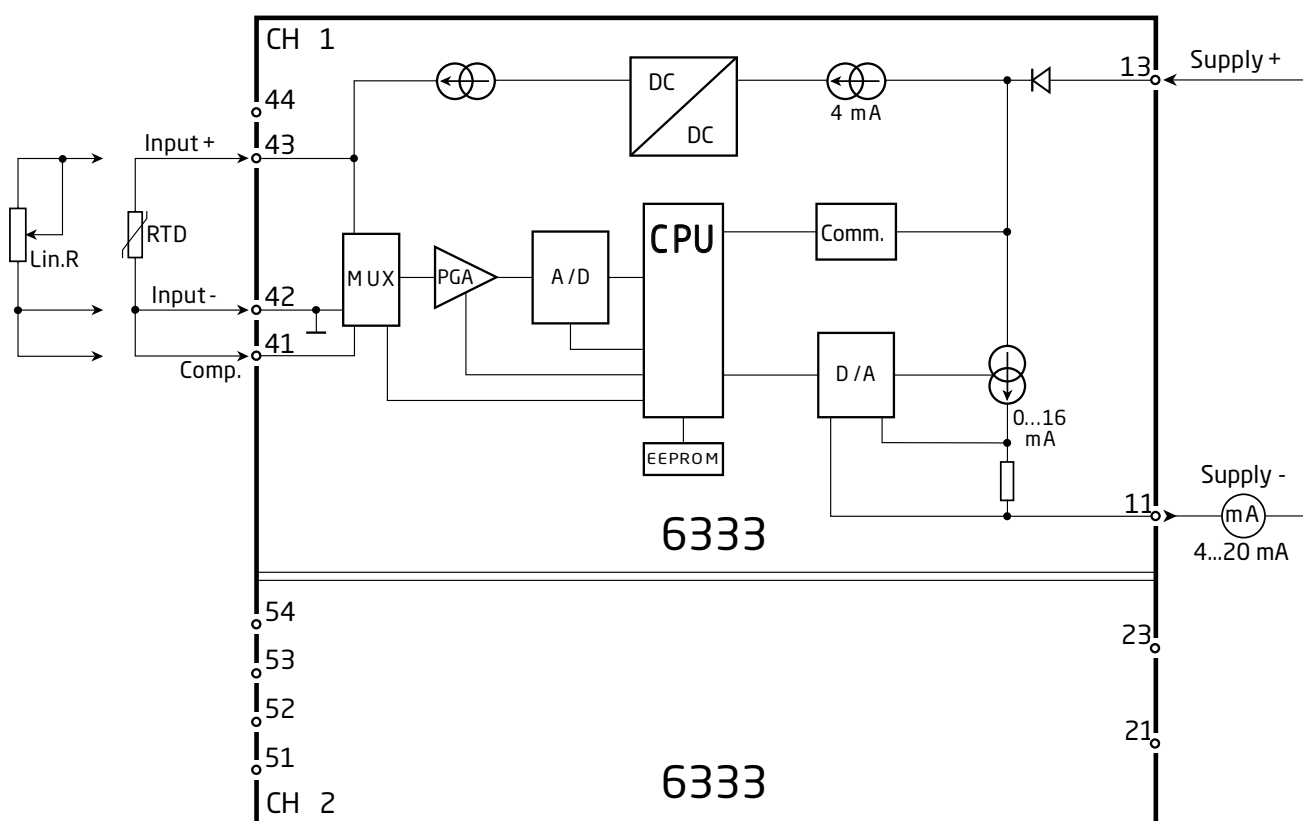
Block diagram:



Order: 6333

Type	Version	Galvanic isolation	Channels
6333	Standard : A ATEX Ex : B	None : 1	Single : A Double : B

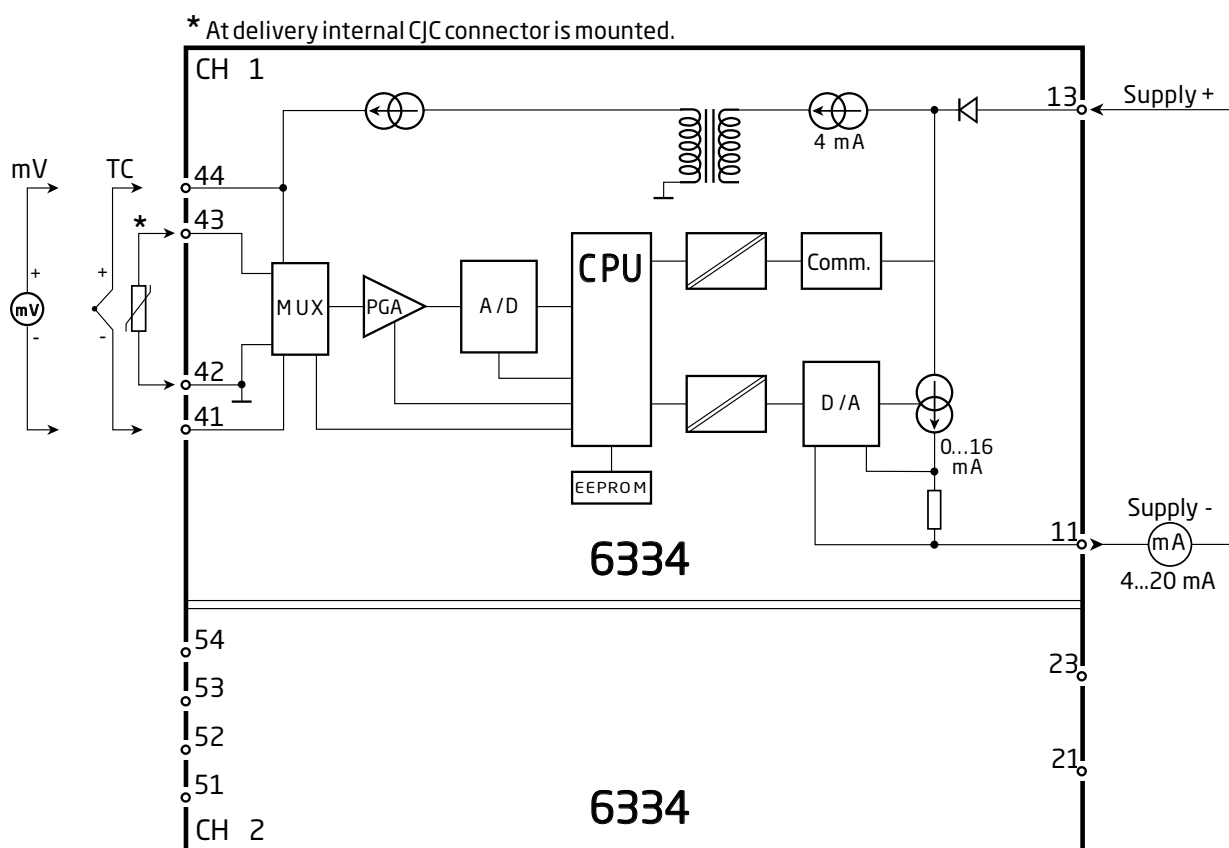
Block diagram:



Order: 6334

Type	Version	Galvanic isolation	Channels
6334	Standard : A ATEX Ex : B	1500 VAC : 2	Single : A Double : B

Block diagram:



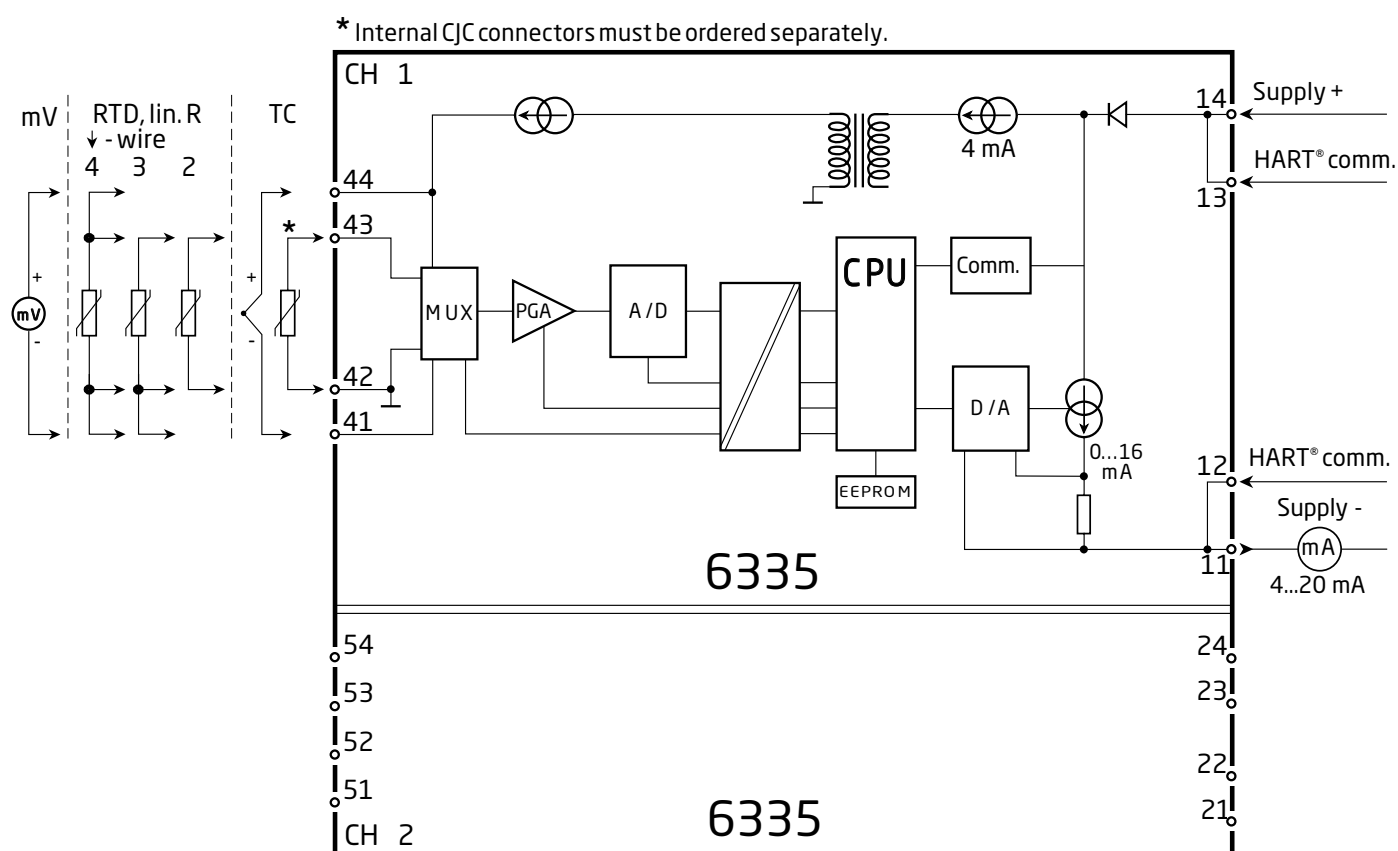
Order

Type	Version	Galvanic isolation	Channels
6335	Zone 2, 22 / Div. 2 : A	1500 VAC : 2	Single : A
	Zone 0, 1, 2, 20, 21, 22, M1 / DIV. 1, DIV. 2 : D		Double : B

Accessories

5909 = Loop Link USB interface
5910 / 5910Ex = CJC connector for channel 1
5913 / 5913Ex = CJC connector for channel 2

Block diagram:



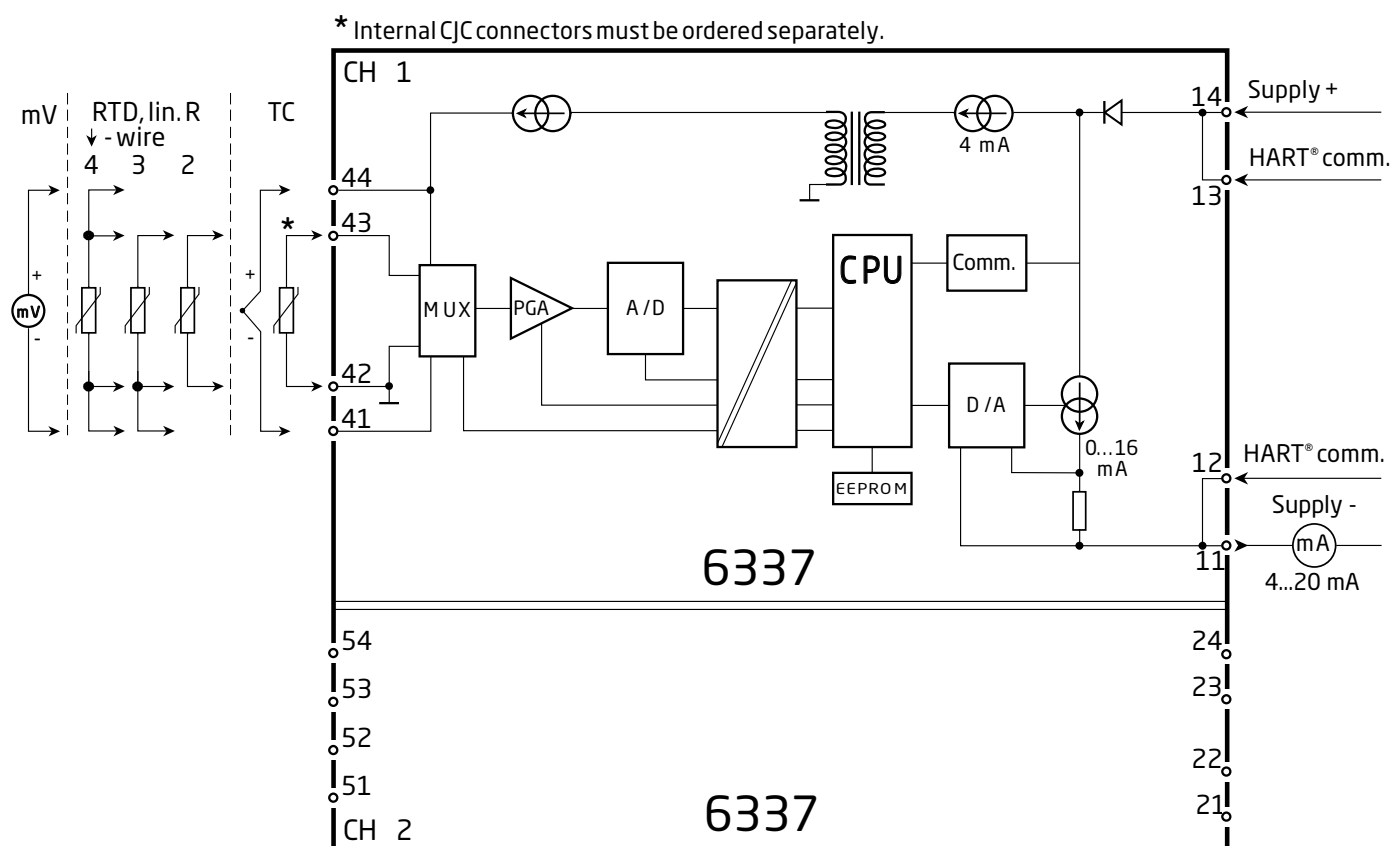
Order

Type	Version	Galvanic isolation	Channels
6337	Zone 2, 22 / Div. 2 : A	1500 VAC : 2	Single : A
	Zone 0, 1, 2, 20, 21, 22, M1 / DIV. 1, DIV. 2 : D		Double : B

Accessories

5909 = Loop Link USB interface
5910 / 5910Ex = CJC connector for channel 1
5913 / 5913Ex = CJC connector for channel 2

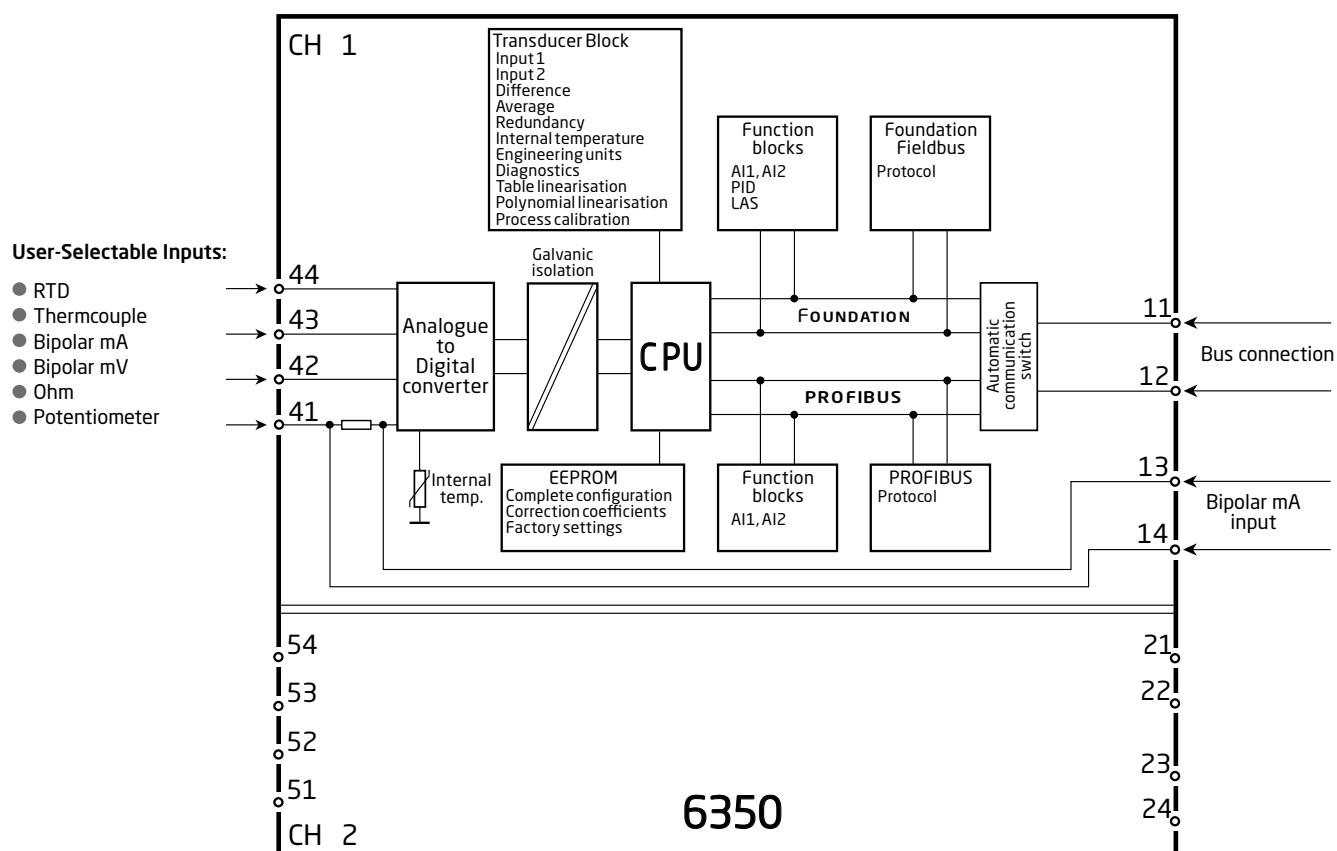
Block diagram 6337:



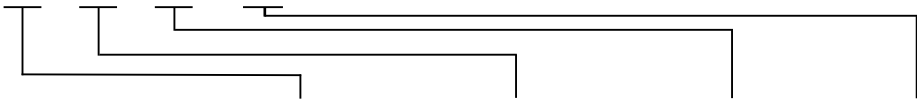
Order: 6350

Type	Version	Galvanic isolation	Channels
6350	Standard : A	1500 VAC : 2	Single : A
	ATEX-Ex, FM and CSA : B		Double : B

Block diagram:



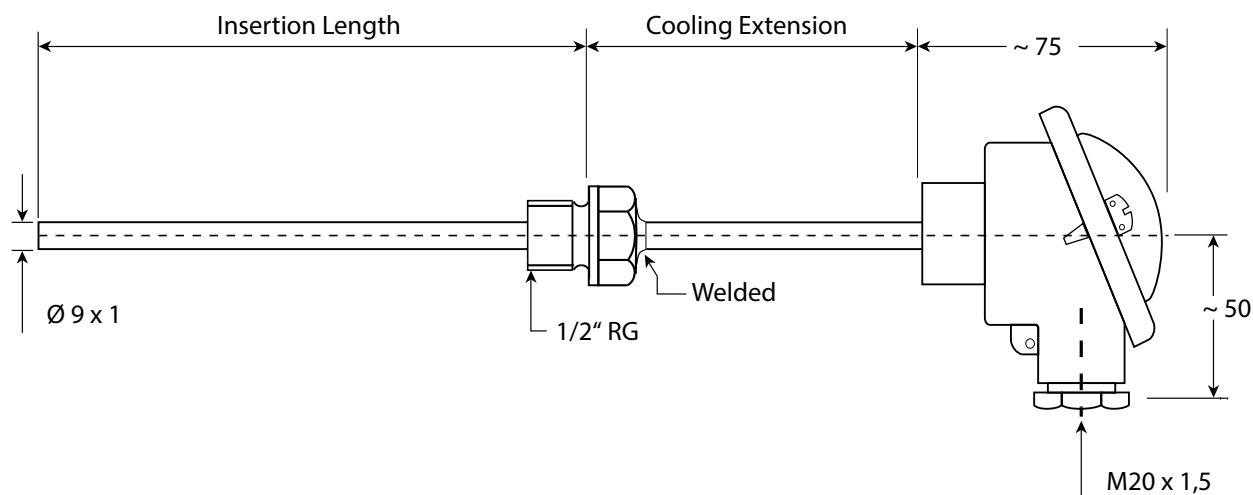
Order: 7400



Type	Pt100 sensor	Accuracy	Cooling extension	Insertion length
7400	1 x Pt100 : A	Class A : 1	Ingen : A	50 mm : 1
	2 x Pt100 : B		100 mm : B	100 mm : 2
			150 mm : C	150 mm : 3
			200 mm : D	200 mm : 4
				300 mm : 5
				400 mm : 6

Example: 7400A1A2 =
 1 x Pt100 sensor
 Class A accuracy
 No cooling extension
 100 mm insertion length

Dimensions:



Order

Type	Housing	Window	O-ring	Conduit thread (D1, D2 & D3)	Paint type	Cover color
7401	Low copper aluminum (AL) : A	No : 1	-40 to +85°C silicone rubber : A	M20x1.5 6H : 1	Epoxy : A	Red : -
		Yes : 2	-20 to +85°C FKM rubber : B	½ NPT mod. : 2	Epoxy + polyurethane : B	Gray : GY
		Yes : 2				
7401	316 Stainless steel (RF) : B	Yes : 2	-40 to +85°C silicone rubber : A -20 to +85°C FKM rubber : B	M20x1.5 6H : 1 ½ NPT mod. : 2	None : N	Steel : -

Example: 7401A2B1A = Aluminum, window, FKM rubber O-ring, M20x1.5 6H conduit, epoxy, red

NB: Head-mounted transmitters must be ordered separately and can be installed in the housing by PR electronics on request.



Order

Type	Housing	Local operator interface		O-ring	Conduit thread (D1, D2 & D3)	Paint type	Transmitter	Approvals	Cover color
		Optical buttons	Display						
7501	Low copper aluminum (AL)	No	No	-40 to +85°C silicone rubber : A -20 to +85°C FKM rubber : B	M20x1.5 6H : 1 ½ NPT mod. : 2	Epoxy : A Epoxy + polyurethane : B	Yes	General purpose	Red
		No	Yes				No (comes with a connection kit)	Hazardous area	
		Yes	Yes				Yes	Hazardous area	Gray
7501	316 Stainless steel (RF)	No	Yes	-40 to +85°C silicone rubber : A -20 to +85°C FKM rubber : B	M20x1.5 6H : 1 ½ NPT mod. : 2	None : N	Yes	General purpose	Steel
		Yes	Yes				No (comes with a connection kit)	Hazardous area	

Examples: 7501A1B1A22 = Aluminum, blind cover, FKM rubber O-ring, M20x1.5 6H conduit, epoxy, connection kit, hazardous installation, red

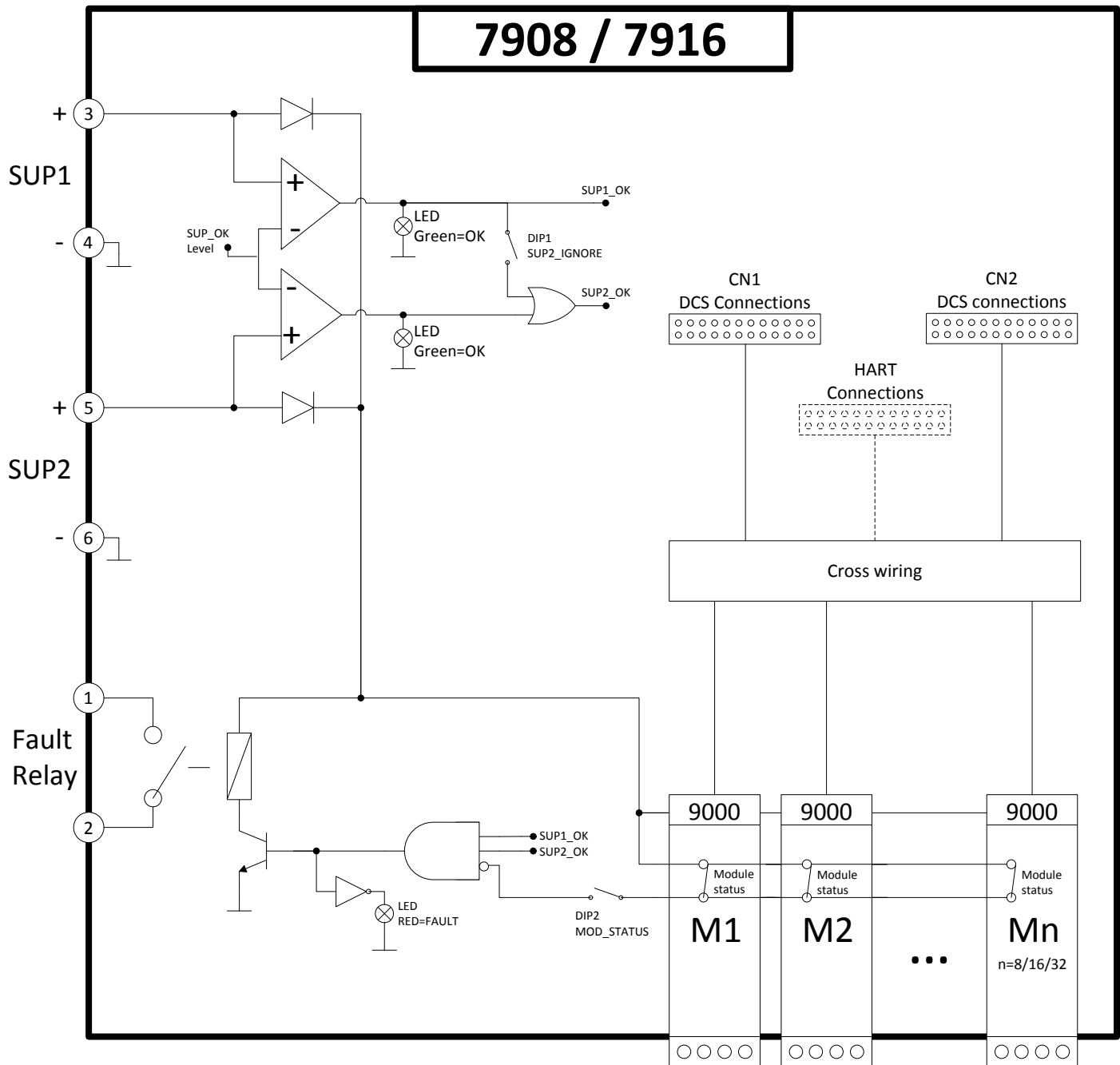
7501A3A1A12GY = Aluminum, Local Operator Interface, silicone rubber O-ring, M20x1.5 6H conduit, epoxy, HART TT, hazardous installation, gray



Order:

7908 = 8 module backplane

7916 = 16 module backplane



Order: 8501

Type	Cable glands
8501	1 cable gland : A 2 cable glands : B 3 cable glands : C 4 cable glands : D

Picture:



Order

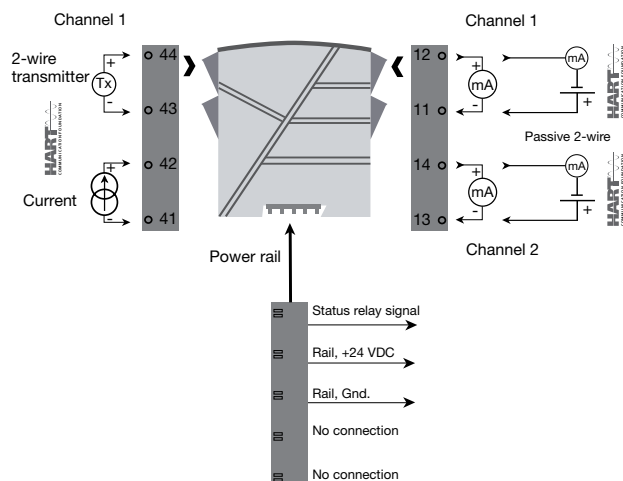
Type	Associated apparatus	Barrier version	Unit channels	Approvals
9106	No : A Yes : B	U ₀ = 27.5 V : 1 U ₀ = 25.3 V : 2	Single : A Double : B	ATEX, IECEx, FM, IN- : - METRO, EAC-Ex cULus, ATEX, IECEx, FM, : -U9 INMETRO, EAC-Ex

Example: 9106B2B

Accessories:

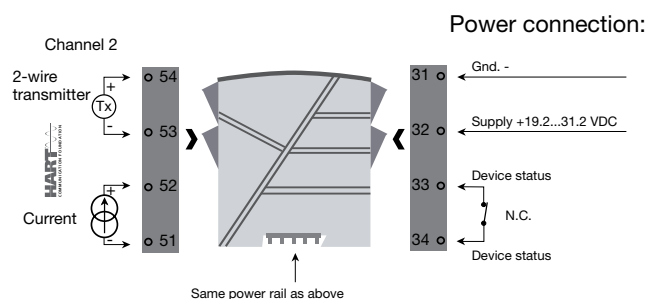
4501	=	Display / programming front
4511	=	Communication enabler
ST9106-01	=	Short-circuit bridge for 9106 output
9400	=	Power rail
9404	=	Module stop for rail
9410	=	Power control unit
9421	=	Power supply 24 V - Ex nA nC

Input signals:



Output signals:

Analogue, 4...20 mA



Order

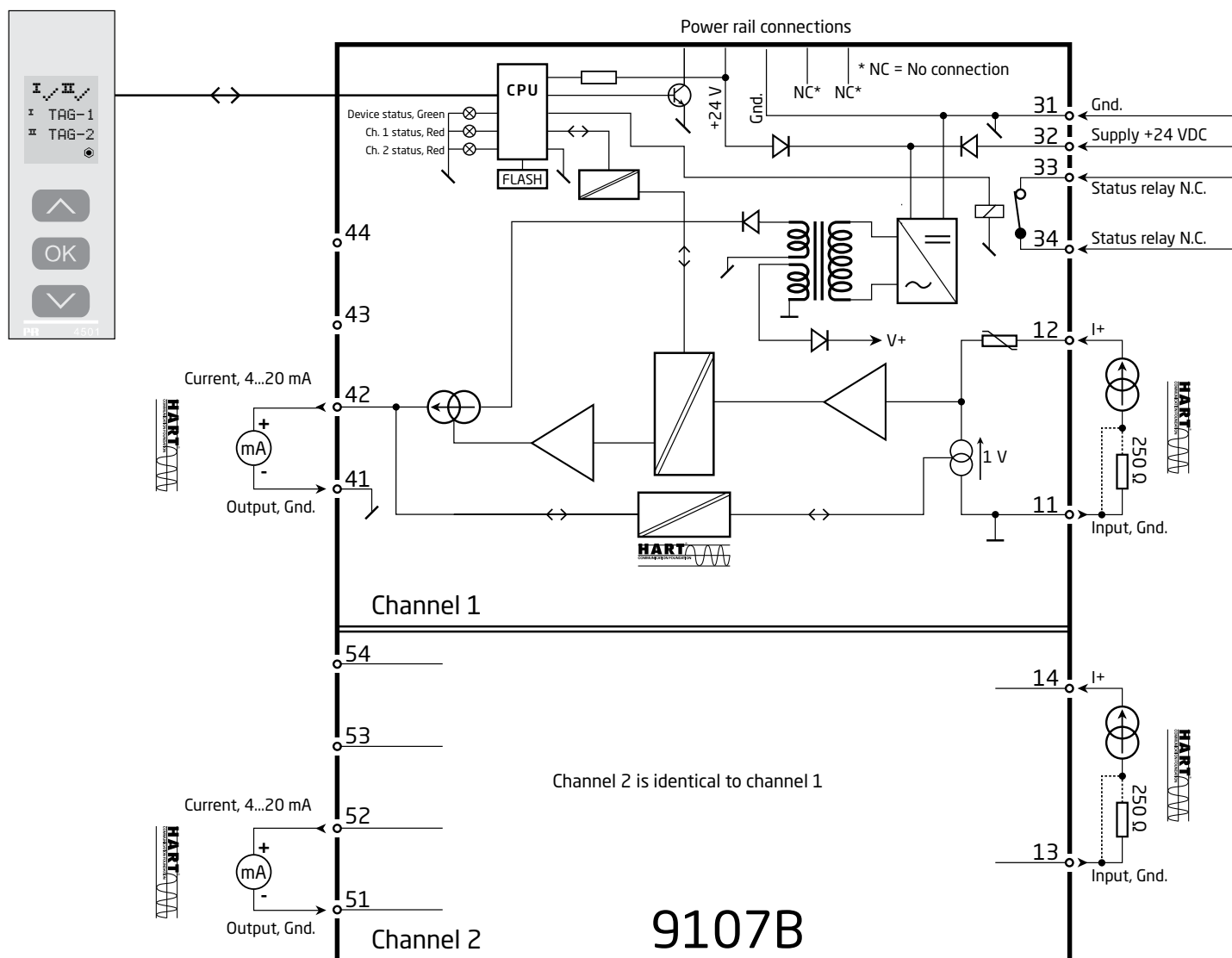
Type	Associated apparatus	Unit channels	Approvals
9107	No : A Yes : B	Single : A Double : B	ATEX, IECEx, FM, IN- METRO, EAC-Ex : - cULus, ATEX, IECEx, FM, : -U9 INMETRO, EAC-Ex

Example: 9107BB

Accessories:

4501 = Display / programming front
4511 = Communication enabler
9400 = Power rail
9404 = Module stop for rail
9410 = Power control unit
9421 = Power supply 24 V - Ex nA nC

Block diagram:



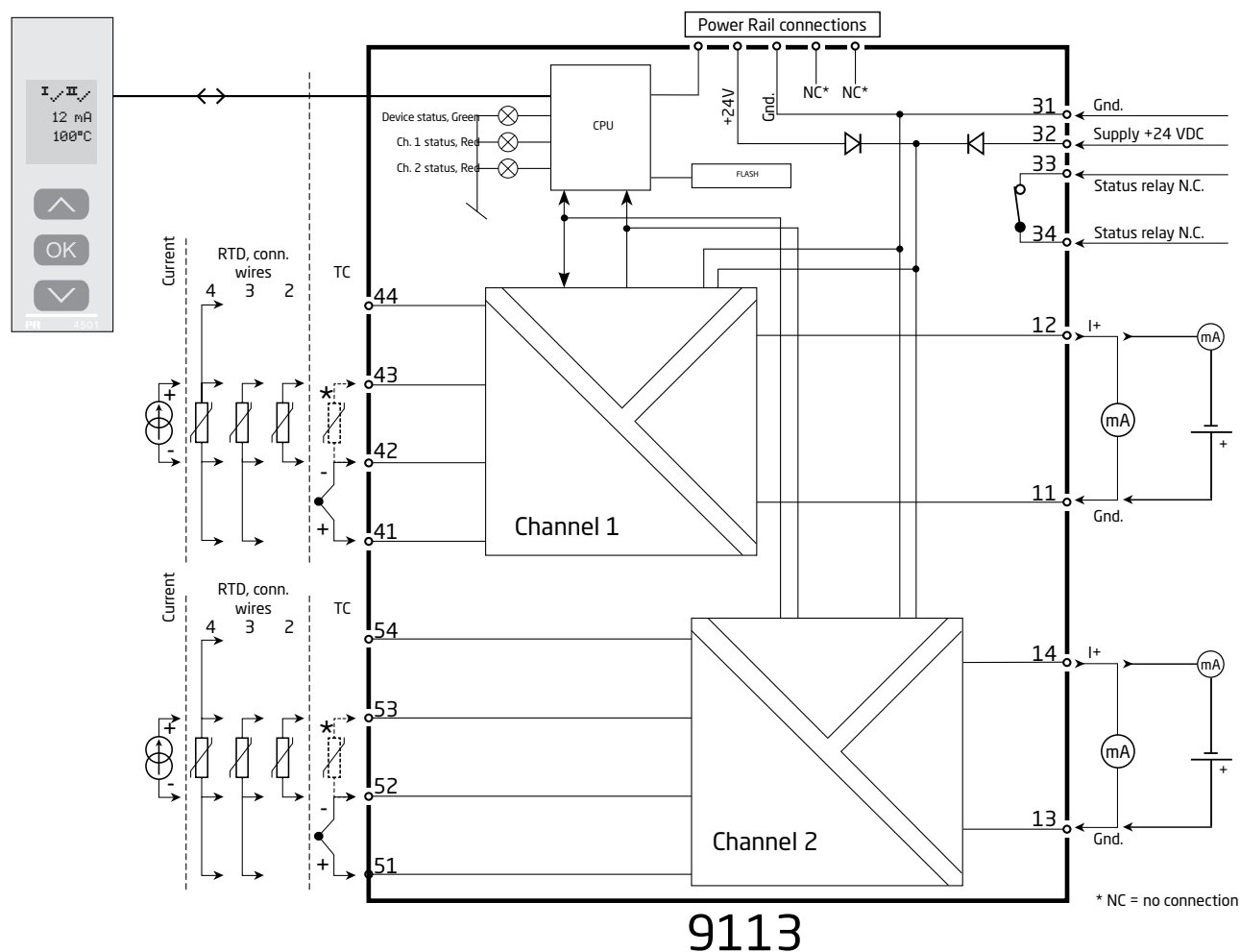
Order: 9113

Type	Version	Unit channels	EMPHASIS-assessed
9113	Standard..... : A Ex / I.S. : B	Single : A Double : B	-EMP

Accessories:

4501 = Display / programming front
 4511 = Communication enabler
 5910 = CJC connector, channel 1, standard
 5913 = CJC connector, channel 2, standard
 5910Ex = CJC connector, channel 1, Ex / I.S.
 5913Ex = CJC connector, channel 2, Ex / I.S.
 9400 = Power rail
 9404 = Module stop for rail
 9410 = Power control unit
 9420 = Power supply 24 V / 120 W - Ex nAC

Block diagram:



Order

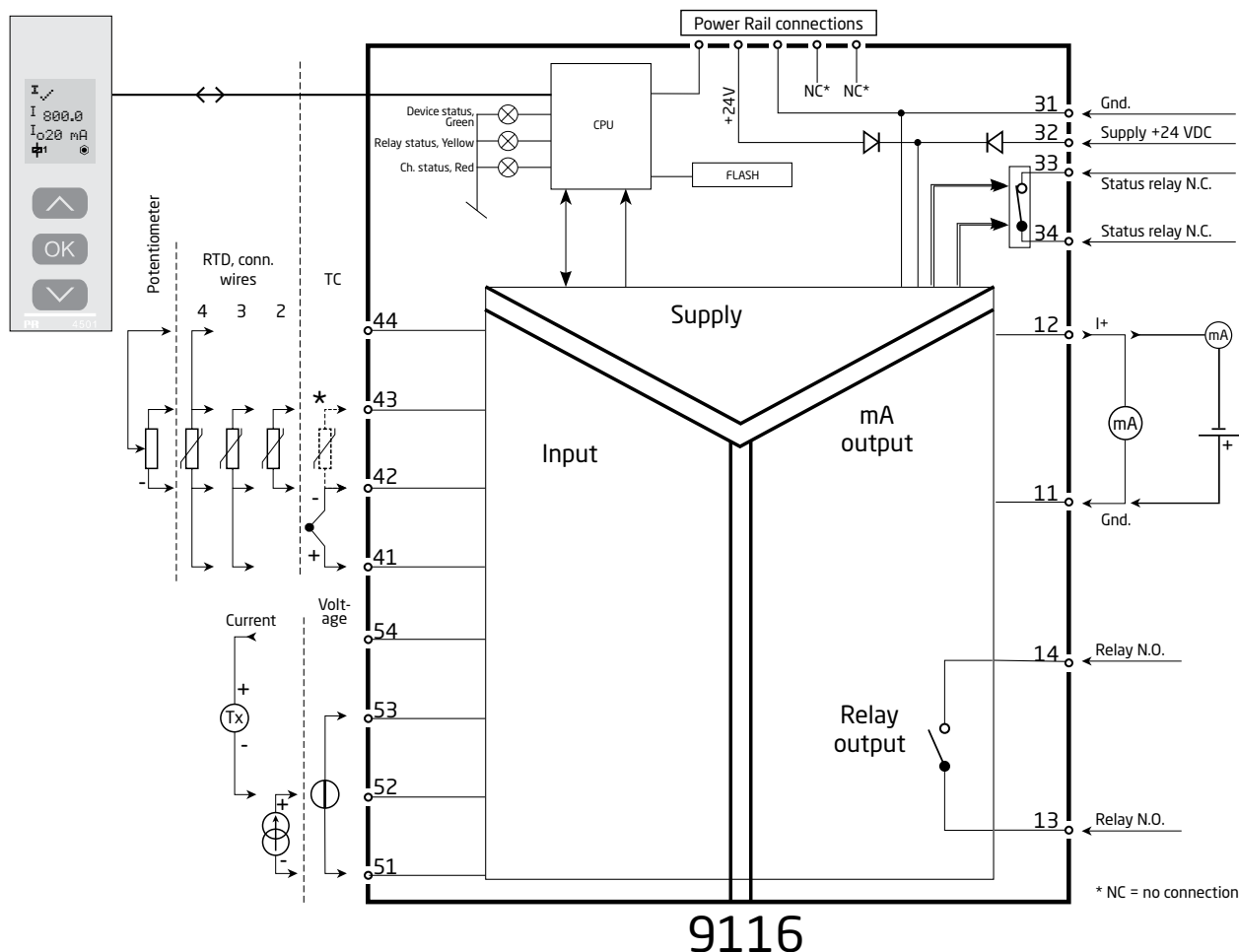
Type	Associated apparatus		Max. loop voltage		Approvals	
9116	No	: A	Uo 28 VDC	: 1	ATEX, IECEx, FM,	: -
	Yes	: B	Uo 21.4 VDC	: 2	INMETRO, EAC-Ex	
					cULus, ATEX, IECEx, FM,	: U9
					INMETRO, EAC-Ex	
					EMPHASIS-assessed	: -EMP

Example: 9116B2

Accessories:

4501	=	Display / programming front
4511	=	Communication enabler
5910	=	CJC connector for 9116Axx
5910Ex	=	CJC connector for 9116Bxx
9400	=	Power rail
9404	=	Module stop for rail
9410	=	Power control unit
9421	=	Power supply 24 V - Ex nA nC

Block diagram:



Order

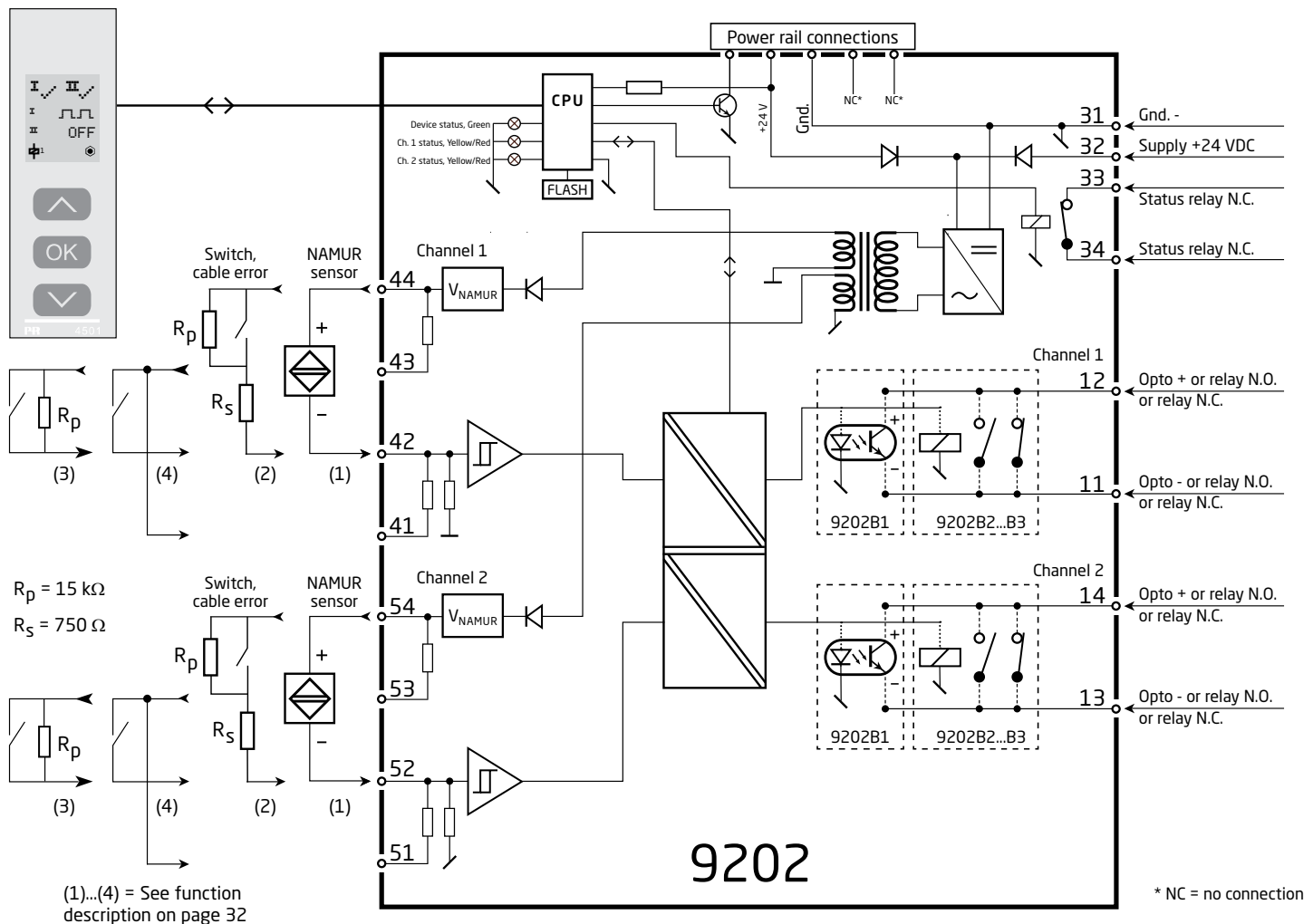
Type	Associated apparatus		Version		Unit channels		Approvals
9202	No	: A	Opto	: 1	Single	: A	ATEX, IECEx, FM, : -
	Yes	: B	Relay N.O.	: 2	Double	: B	INMETRO, EAC-Ex
			Relay N.C.	: 3			cULus, ATEX, IECEx, FM, : -U9 INMETRO, EAC-Ex

Example: 9202B2B

Accessories:

- 4501 = Display / programming front
- 4511 = Communication enabler
- 9400 = Power rail
- 9404 = Module stop for rail
- 9410 = Power control unit
- 9421 = Power supply 24 V - Ex nA nC

Block diagram:



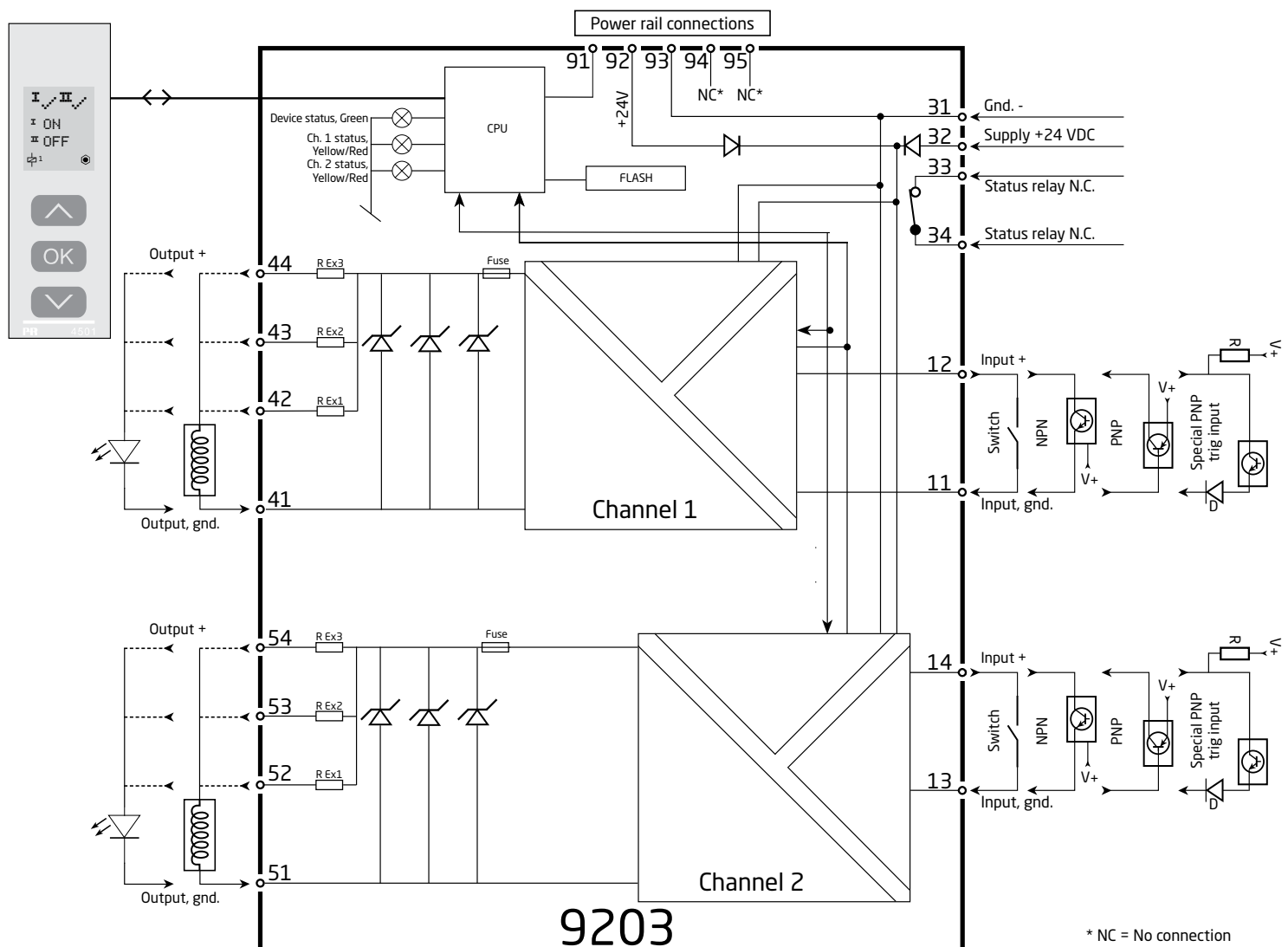
Order: 9203

Type	Version	Output	Channels	Input
9203	Non-Ex / zone 2....: A	Low current: 1	Single: A	Standard.....: -
	Ex barrier [Ex ia] / zone 2.....: B		Double: B	PNP.....: 1
		High current: 2	Single: A	NPN.....: 2

Accessories

Type	Description
4501	Display / programming front
4511	Communication enabler
9400	Power rail
9404	Module stop for rail
9410	Power control unit
9420	Power supply 24 V / 120 W - Ex nAC

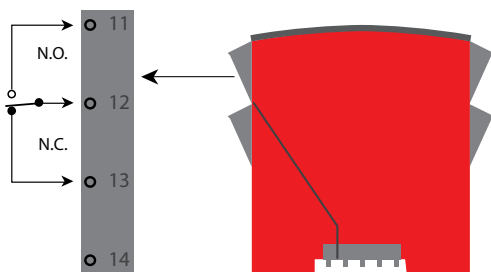
Block diagram:



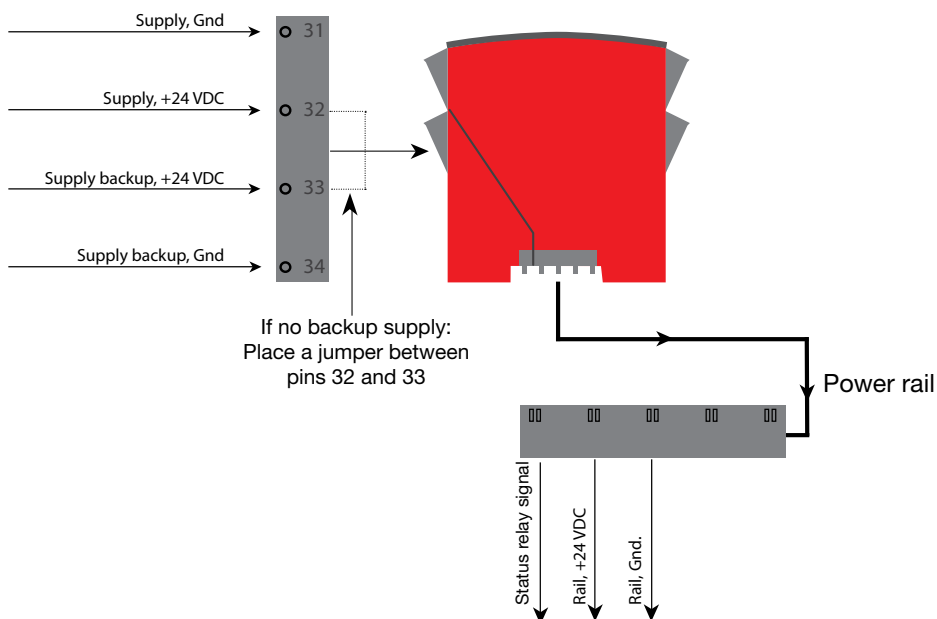
Order: 9410

9410 = Power Control Unit
9400 = Power rail

Device status relay from power rail



Power connections



Order: 9421

9421 = Power Supply
9400 = Power rail

