













ART.2204N 4 WAY ISOLATION CARD

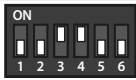
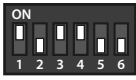


















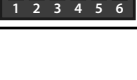
Audio cabinets with isolation (2291A4, 2291A8 and 2291A12) will include 1, 2 or 3 Art.2204N 4 way isolation cards depending on which cabinet is being used. Video cabinets with isolation (2291V4, 2291V8 and 2291V12) will also include the Art.316I 4 way video isolation cards.













The Art.2204N will protect against shorts or faults on all connections to an apartment. Plug in connections are used for easy maintenance. There are 10 status LED's on each card. The green LED next to each output is used to identify when an output is in use (*green output LED indicates that the output is ON*). The red LED next to each output indicates when there is a fault on the bus connection of that output. Next to the main input of the card is a red 12V fault LED which will indicate if there is a fault on the 12Vdc input and also a yellow S1 active LED to indicate when the S1 terminal connection is active.

The Art.2204N has a 6 way dip-switch which is used to address the isolation card (*up to ID.44, output 180, refer to the following table for addressing isolation cards*). The address of the card must correspond with the address of the audio/videophone in the apartment. For example, output 1 of the first Art.2204N must be connected to a audio/videophone with address ID.1, output 3 must be connected to a audio/videophone with address ID.3, output 1 of the second Art.2204N must be connected to a audio/videophone with address ID.5 etc.

Art.2204N Addressing

Art.2204N Unit Address	Output No.				Dip-Switch
	1	2	3	4	
0	1	2	3	4	
1	5	6	7	8	
2	9	10	11	12	
3	13	14	15	16	
4	17	18	19	20	
5	21	22	23	24	
6	25	26	27	28	
7	29	30	31	32	
8	33	34	35	36	
9	37	38	39	40	
10	41	42	43	44	
11	45	46	47	48	

12	49	50	51	52	
13	53	54	55	56	
14	57	58	59	60	
15	61	62	63	64	
16	65	66	67	68	
17	69	70	71	72	
18	73	74	75	76	
19	77	78	79	80	
20	81	82	83	84	
21	85	86	87	88	
22	89	90	91	92	
23	93	94	95	96	
24	97	98	99	100	
25	101	102	103	104	
26	105	106	107	108	
27	109	110	111	112	
28	113	114	115	116	
29	117	118	119	120	
30	121	122	123	124	
31	125	126	127	128	
32	129	130	131	132	

33	133	134	135	136	
34	137	138	139	140	
35	141	142	143	144	
36	145	146	147	148	
37	149	150	151	152	
38	153	154	155	156	
39	157	158	159	160	
40	161	162	163	164	
41	165	166	167	168	
42	169	170	171	172	
43	173	174	175	176	
44	177	178	179	180	

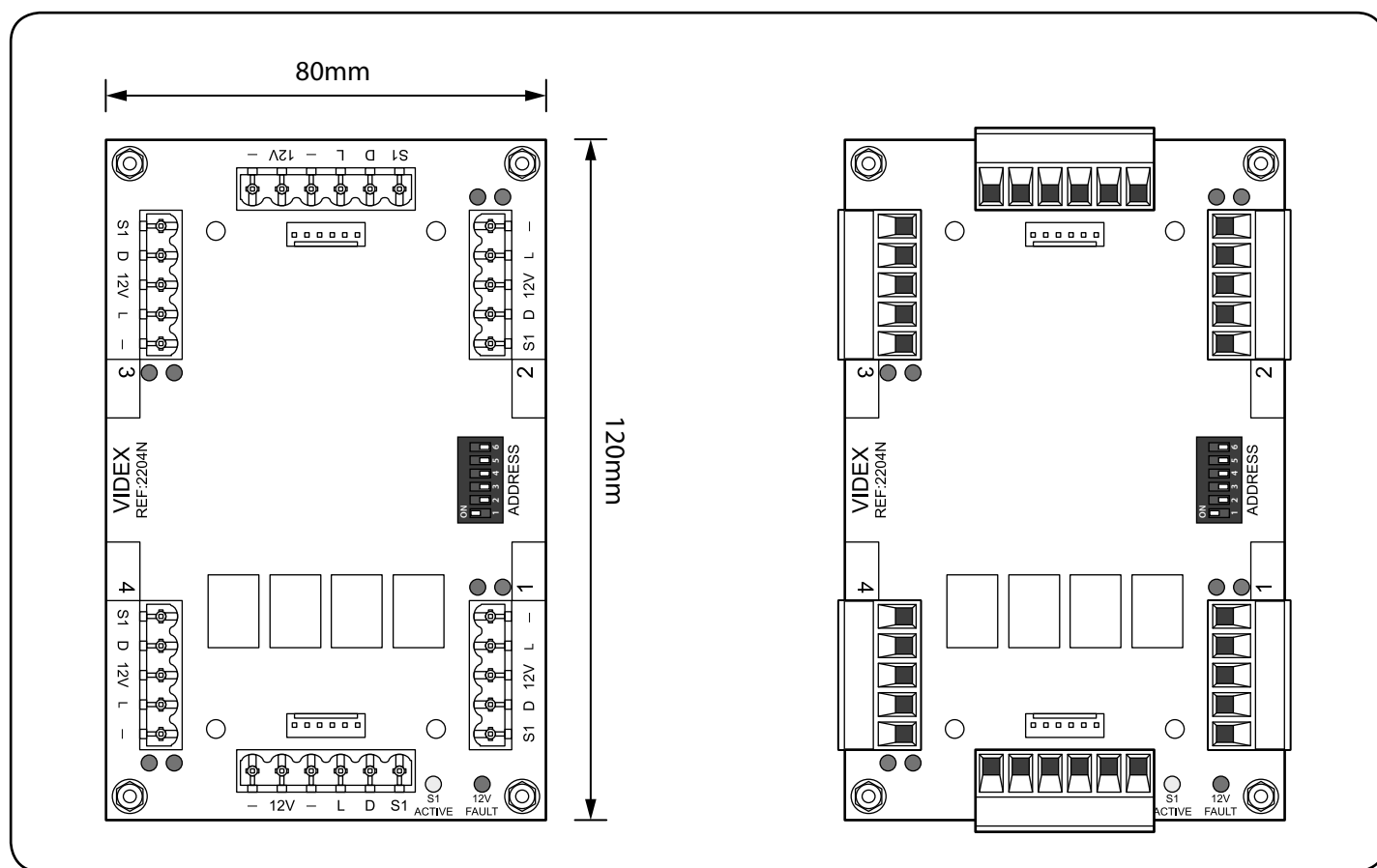
Art.2204N Operation

In standby the phones connected to the Art.2204N are disconnected from the main BUS. During a call the selected output on the card will be connected to the main BUS, the green LED next to the output will illuminate for the length of the call.

Technical Specifications

Input Voltage	: 12Vdc, +5% -10%	
Current (<i>standby</i>)	: 11.5mA (<i>max.</i>)	} — with 4 intercom phones connected
Current (<i>during call</i>)	: 65mA (<i>max.</i>)	
Current (<i>speech live</i>)	: 68mA (<i>max.</i>)	
Current (<i>during lock release</i>)	: 68mA (<i>max.</i>)	
Isolation Card Dimensions	: 120mm (L) x 80mm (W)	
Working Temp.	: -10°C +50°C	

Art.2204N Dimensions



Terminal Connections

Isolation Card 'through' Connections	
Terminal	Function
-	GND power input/output connection
12V	+12Vdc power input/output connection
-	BUS line ground input/output
L	BUS line data input/output
D	Door Open LED input/output connection (<i>switched 12Vdc</i>)
S1	Spare service button connection from audio/videophone (<i>switched 0V</i>)
Isolation Card Output Connections (1 - 4)	
Terminal	Function
S1	Spare service button connection from audio/videophone (<i>switched 0V</i>)
D	Door Open LED input connection (<i>switched 12Vdc</i>)
12V	+12Vdc power output connection (<i>for audio/videophones that require 12Vdc input</i>)
L	BUS line data output
-	BUS line ground output

ART.316I 4 WAY VIDEO ISOLATION CARD

Video cabinets with the Art.2204N isolation cards (2291V4, 2291V8 and 2291V12) will also include an Art.316I 4 way video isolation card for each Art.2204N.

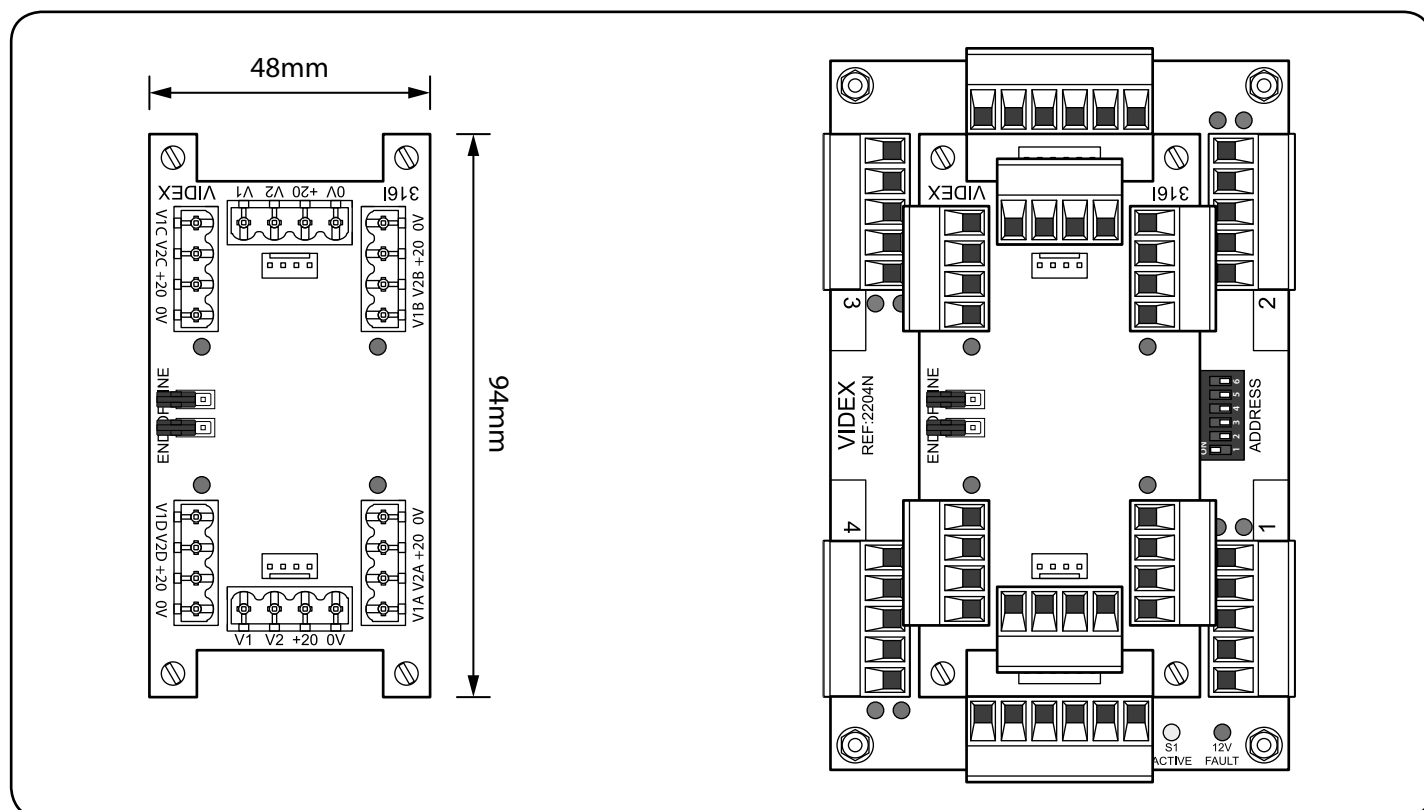
The Art.316I will protect against shorts or faults on the video connections (+20V, 0V, V1 and V2) to an apartment. The Art.316I is mounted on top of the Art.2204N isolation card it is associated with. Plug in connections are used for easy maintenance. There are 4 outputs to connect up to 4 videophones off one card and a set of 'through' terminal connections to link more than one Art.316I in series. Each output has a red status LED which indicates when there is a fault on the output. Two end of line jumpers are located between the 3rd and 4th output and are used to set the video termination. Only the last Art.316I in line needs to have both jumpers in the 'closed' position.

Art.316I Operation

In standby (*on video systems only*) a permanent 20Vdc will be present on all +20V inputs and outputs on the Art.316I. Once a call is made to the apartment the video signal V1 and V2 from the camera will be switched through the Art.316I to all the V1 and V2 outputs. The video image will only appear on the videophone that has been called.

Each of the four +20V outputs benefits from over current protection (500mA max.). If a short appears on an output or a fault towards the videophone occurs then the +20V connection on that output will be disconnected from the main +20Vdc into the card which will allow the other outputs to continue working. The red LED next to the output will illuminate to indicate that there is a short or a fault on that output.

Art.316I Dimensions



Terminal Connections

Isolation Card 'through' Connections	
Terminal	Function
V1	Balanced video signal sync+ from previous Art.316l, camera or control cabinet
V2	Balanced video signal sync- from previous Art.316l, camera or control cabinet
+20	20Vdc input/output from Art.893N psu, previous Art.316l or control cabinet
0V	0V input/output from Art.893N psu, previous Art.316l or control cabinet
Isolation Card Output Connections (a, b, c and d)	
Terminal	Function
V1	Balanced video signal sync+ to videophone
V2	Balanced video signal sync- to videophone
+20	+20Vdc power to videophone
0V	0V ground to videophone

Technical Specifications

Input Voltage	: 20Vdc, +5% -10%
Current (standby)	: 16mA (max. on 20Vdc)
Current (during call)	: 180mA (max. on 20Vdc)
Current (per output)	: 200 - 350mA (500mA max.)
Isolation Card Dimensions	: 94mm (L) x 48mm (W)
Working Temp.	: -10°C +50°C