

DATASHEET

Features

- 24Vdc Powered (48Vdc or 85-264Vac/dc option)
- Small, compact, panel mounted and easy to use
- 16 Potential Free Contact Inputs
- Normally Open/Closed Selectable via DIP switch
- 27 Standard Sequences
- Choice of Lamp/Sidebar LED/Backlit LED Display
- User printed legends on inkjet/laser
- Four function Group Alarm output contact
- Motor Alarm Sequence and Timer options
- Optional internal repeat relay outputs
- Fully "DIP" Switch Configurable
- Optional Serial Port Modbus/PLC compatible

The Omni-16c annunciator replaces the Omni-16a and b series annunciators with one product offering the option of incandescent lamps, backlit LED or Sidebar LED indicator windows. Omni16c is a panel mounted annunciator with optional integral Test, Silence, Acknowledge, Reset Pushbuttons sacrificing one alarm window or uses an externally wired pushbutton station.

The 16 inputs accept potential free inputs and are individually DIP switch configured for N.O. or N.C. operation. Inputs are wired to terminals at the rear of the annunciator. Optional Inputs boards for com negative (PLC compatible) or fully isolated 19-60Vdc or 90-150 Vac/dc are also available. The alarm sequence for the 16 inputs is also configured by DIP switch with a choice of 27 standard sequences. Four output relays can be



configured as group alarm, horn output and watchdog with a change over contact at the terminals. The group alarm can be set to one of four functions, Follows input, follows alarm, Multiple reflash, Ringback horn.

An Inhibit input is provided to optionally disable all the inputs on the annunciator during startup/maintenance.

Input repeats and Lamp repeat are available using an optional ribbon header terminal board C1426.Omniflex has completely re-designed the Omni16C with new technology to compliment PLC's in applications where alarm annunciation is required using serial communications.

SPECIFICATIONS

Power Supply Options

rower Supply Options						
Voltage Option	24Vdc (STD)		20-60Vdc**		85-264Vac**	
Isolation PSU to inputs	None		1500Vrms		1500Vrms	
** To be ordered as	on option	see acces	sories list Fitted	l prior	to shipment	
Max dc Ripple	10% pk. to pk.		10% pk. to pk.		N/A	
Consumption C1480 C1481 C1482	1 Amp max 1 Amp max 2 Amps max		1.2-0.6 Amps 1.2-0.6 Amps 2.2 –0.8Amps		0.6-0.3A 0.6-0.3A 1.1-0.5A	
Alarm Inputs - Potential Free Contact						
Input Board Option		C148X-	0	C148X-1		
Input Type		Common +ve ** Co		Con	mmon -ve	
		** Standard Option Order		er		
Quantity and Type		16 Potential Free Contacts				
Max. Open cct Voltage		28Vdc				
Max. Closed cct Current		5mA per input circuit				
Max. Loop Resistance to detect closed contact		200 ohms				

Min. Loop Resistance to detect open contact	100 kohms		
Alarm Inputs - Indiv	idually Isolated		
Input Board Option	C148X-2	C148X-3	
Input Voltage range	19 to 60Vdc	90-150Vdc/ac rms	
Isolation Input to Logic	1500V ac rms	1500V ac rms	
Isolation Input to Input	500V ac rms	500V ac rms	
Quantity and Type	16 dc or ac inputs		
Compliance to standards			
Safety	IEC950		
EMC	EN50081-2; EN50082-2		
Compliance to CEGB EES 1988 and Eskom NWS1819 specifications			
Inputs General			
Input Scan Rate	4 milliseconds		
Wire size	1.5mm2 (17SWG/15.5SWG) max.		
Connections	Via plug-in Terminals		
Integral Pushbuttons			
Quantity	Four buttons mounted on front facia		
Functions	Silence; Acknowledge; Reset; Circuit Test		





Model C1480B, C1481B and C1482B 16 Point Alarm Annunciator.

Alarm Window Display				
Quantity	16 Alarm windows			
Model	C1480B	C1480B C1481B		
Туре	Backlit LED	Side bar LED	Incadescent Lamp	
Window Size	24mmx64mm	21mmx51mm	24mmx64mm	
Legend Area	21mmx60mm	20mmx40mm	21mmx60mm	
Legend Type	gend Type User printed on film with laser/inkjet using software provided.		User printed on film with laser/inkjet using software provided.	
Relay Contact Outputs				

Legend Type	User printed on film with laser/inkjet using software provided.		Engraved plastic window	User printed on film with laser/inkjet using software provided.	
Relay Contac	Relay Contact Outputs				
Contact Type		2 Potential free changeover (Form C)2 Potential free normally Open (Form A)			
Contact Rating		2A 30Vd	c or 0.5A 230Vac		
Isolation		1000Vac from contact to other circuits			
Temperature Range					
Operating Temper	ature	0°C - 60 °C (+32°F - 140°F)			
Storage Temperature		-10°C – 70 °C (+14°F – 158°F)			
Weight					
Unpacked		1.8kg approx.			
Packed		2.2kg approx.			
Compliance to Standards					
Safety	Safety		EN 60950:1995		
Emissions	Emissions I		EN55011 & EN50081-2:1994 Grp I Class A		
Immunity – ESD		IEC 61000-4-2:1995, level 3			
Immunity – RF Fields		IEC 61000-4-3:1995, level 3			
ORDERING INFORMATION					

Immunity – Fast Transients	IEC 61000-4-4:1995 2 kV – DC power port 1 kV – input/output lines
Supply Variations	IEC 61000-4-7:1991, 24 V dc +15% -10%
Vibration	IEC60068-2-6: 1995 10-150Hz. 1g

Sequence Options				
Seq. No.	Sequence Description			
1	LAMP FOLLOWS INPUT			
2	MOMENTARY (FLEETING) ALARM, MANUAL RESET			
3	ALARM ONLY (NON-LATCHING INPUTS) AUTO RESET			
4	MOMENTARY ALARM, MANUAL RESET WITH ALARM RINGBACK			
5	FIRST OUT, MULTIPLE GROUPS, MANUAL RESET			
6	FIRST OUT, MANUAL RESET, AUTO RESET ON SUBSEQUENT ALARMS			
7	FIRST OUT, SINGLE GROUP, MANUAL RESET, FIRST OUT CONTINUOUS FLASH			
8	FIRST OUT, MANUAL RESET, SUBSEQUENT ALARMS WITHOUT HORN			
9	MOMENTARY ALARM, MANUAL RESET, AUTO SILENCE AFTER TIME DELAY.			
10	MOMENTARY ALARM, MANUAL RESET, REALARM AFTER TIME IF STILL ABNORMAL.			
11	MOMENTARY ALARM, MANUAL RESET, CONSTANT FLASH (FOR MOTOR ALARMS).			
12	MOMENTARY ALARM, AUTO RESET, TIME DELAY ON RETURN TO NORMAL.			
13	PULSE MONITORING ALARM; MANUAL RESET			
18	MOMENTARY ALARM, AUTO RESET			
21	FIRST OUT, MULTIPLE GROUPS, AUTO RESET			
23	FIRST OUT, SINGLE GROUP, AUTO RESET, FIRST OUT CONTINUOUS FLASH			
24	FIRST OUT, AUTO RESET, SUBSEQUENT ALARMS WITHOUT HORN			
25	MOMENTARY ALARM, AUTO RESET, AUTO SILENCE AFTER TIME DELAY.			
26	MOMENTARY ALARM, AUTO RESET, REALARM AFTER TIME IF STILL ABNORMAL.			
27	MOMENTARY ALARM, AUTO RESET, CONSTANT FLASH (FOR MOTOR ALARMS)			
28	PULSE MONITORING ALARM, AUTO RESET			
30	SERIAL PORT READ ONLY MODE			
31	SERIAL PORT READ/WRITEMODE			

ORDERING INFORMATION

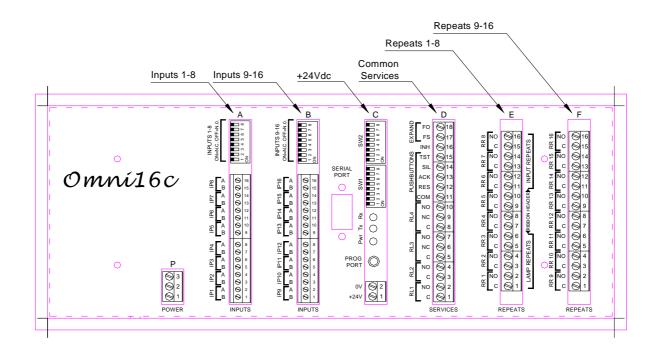
ORDER CODE		DESCRIPTION			
C1480B-x		LED Backlit Alarm Annunciator; 24Vdc (Order LED boards separately)			
C1481B-	Х		Sidebar LE	D Annunciator; 2	24Vdc
C1482B-	Х		Incandesce	nt Lamp Annunc	ciator; 24Vdc
X =	Omit (def	ault)	-1	-2	-3
	+ve Com		-ve Com	19-60Vdc iso	90-150Vac/dc iso
Access	Accessories To be ord		dered separately Will be fitted before delivery.		
Input Bo	ard Option	1			
C1174A			Omni16C R	libbon Header In	put Board
PSU Op	tion – fitted	d into the	Omni16C l	Housing.	
C1421		85-264Vac/	dc Isolated Pow	er Supply	
C1422			30-60Vdc Isolated Power Supply		
Serial Communications Option (Modbus)					
C1423		Isolated RS232/485 Serial Port			
Repeat Outputs					
C1425		8 way Input	Repeat Relay B	Soard	
C1426		16 way Ribbon-Header Repeat Output Board (Input and Lamp Repeats)			
C1169		16 Way Repeat Lamp Driver Terminals			
Pushbutton Stations					
C1420		Integral Pushbutton Station – (in window 16)			
C1415		Remote Pushbutton Station with Audible			
Window and Lamp Board Options					
Backlit LED					
C1150		Red Backlit LED Lamp Board			
C1151		Yellow Backlit LED Lamp Board			
C1152		Green Backlit LED Lamp Board			

C1153	Blue Backlit LED Lamp Board	
C1154	Orange Backlit LED Lamp Board	
C1155	White Backlit LED Lamp Board	
Incandescent		
C1160	Lamp and Holder 8 Window Pack	
C1161	Incand. Lamp replacement 10 pack	
C1162	Incand. Lamp replacements 100 pack	
C1163	Assorted Colour Filter Kit	
C1164A	Plastic Windows and Diffuser Kit (8 pack)	
Sidebar LED		
C1448-1	Black engravable window	
C1448-2	Red engravable window	
C1448-3	Amber engravable window	
C1448-4	Yellow engravable window	
C1448-5	Green engravable window	
C1448-6	Blue engravable window	
C1448-7	White engravable window	
C1446	Engraving for Sidebar Led Windows	
Mounting Hardware		
C1431-01	Mounting Kit 2 High Stack	
C1431-02	Mounting Kit 3 High Stack	
C1431-03	Mounting Kit 4 High Stack	
Interface Accessories		
C1168	OmniSet Programming cable for Prog Port	
C6320A-2	Ribbon Header to terminals converter	
C6308A-2-0	Ribbon to 16 Relays Form C 5A	

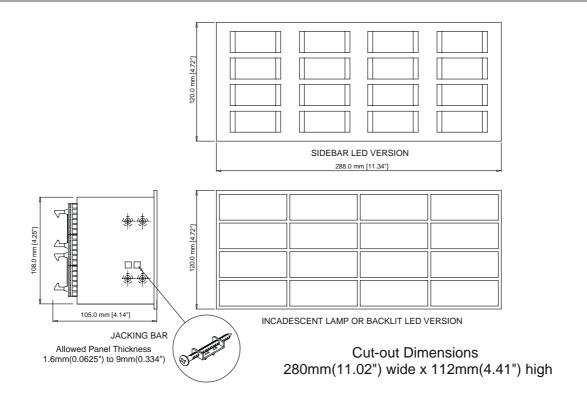




ELECTRICAL CONNECTION



MECHANICAL CONFIGURATION







ELECTRICAL CONNECTION DIAGRAM

