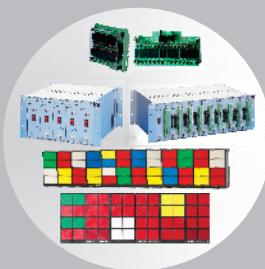


ALARM ANNUNCIATORS

1
2
3
4



Minilec Microprocessor Based Alarm Annunciators are designed to keep an alert & watchful eye on your plant & processes. The entire range has been designed with an insight into the modern day manufacturing plant & its future requirements. Minilec Alarm Annunciators are equipped with microprocessor-based design, super bright LED facia windows, site selectable, programmed sequences as per ISA standard & thoughtful provisions for troubleshooting & maintenance. Dynamic, Alert & Responsive... These unique advantages have helped the Minilec Annunciators to be an icon in the power T & D industry & engineering establishments in India. The world class Minilec Annunciator has made its presence felt in Overseas markets.



MODELS

MICROWARN 0600,
MBAS 0600,
MICRO 17,
MBAS 9700,
F3MEH1, Micro Facia
MBAS 08,
MBAS 11, MBAS 18, F3 MEH2

FEATURES

- 4 windows to 128 windows
- Integral & Split models
- Microprocessor based
- Super bright LEDs for facia
- Standard operating sequences
- Any other custom- made sequences
- NO-NC & Trip Non-Trip site selectable
- Repeat relays
- Supply fail annunciation / Indication
- Choice of 3 window sizes
- Choice of five colours
- RS 232 / RS 485 Output Port having MODBUS RTU protocol or fault Input through RS 485 port MODBUS RTU protocol.

FUNCTIONS

- Continuous monitoring of input parameters
- Control of process through outputs & software
- Data acquisition & communication
- Data Storage & records through PC

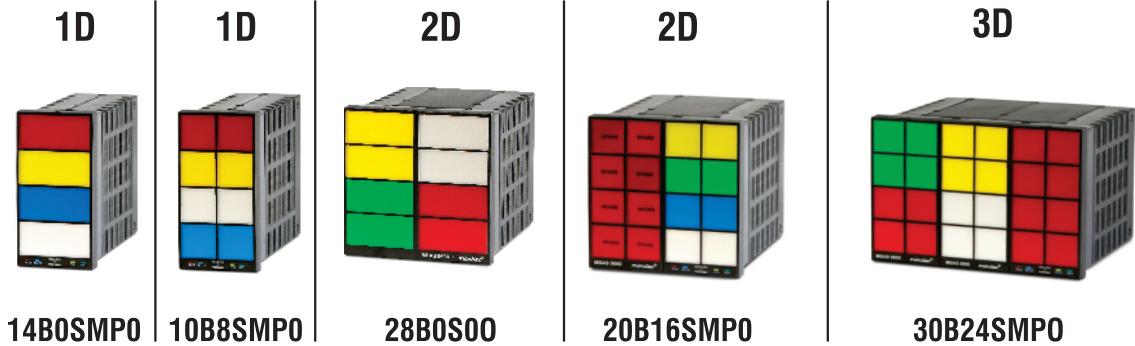


Ordering Instructions

- Product Family Name
- Model Name
- Aux. Supply/Control supply voltage
- No. of Input (Windows)
- Operating sequence

ALARMS ANNUNCIATORS

MBAS 0600 / MICRO 17



MBAS 0600 is an improved version of earlier MBAS 9400 and is available for 4 to 32 windows

The Functional Features

- Fixed Sequence (S1/S2/S3/S4)
- Potential free dry contact inputs
- NO/NC inputs selectable configuration
- Relay output for external Audible Hooter 3rd Relay (optional) for either of below mentioned features
 - a) Ring back hooter
 - b) Supervisory control
- Minilec Standard Communication Protocol

The Design Features

- Single chip microcontroller logic
- Opto isolated inputs and outputs
- Super Bright LED window illumination
- High Noise immunity / isolation
- Switch mode power supply
- Self surveillance watchdog LED

The Constructional Flexibility

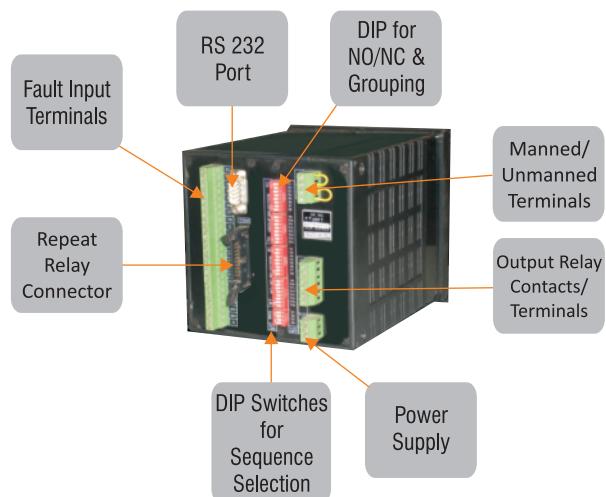
- Conforming to DIN panel cutouts
- Replaceable snap-on window capsules
- Two different window size
- Moulded enclosures

Optional Features

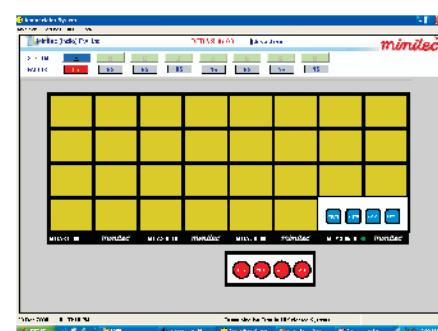
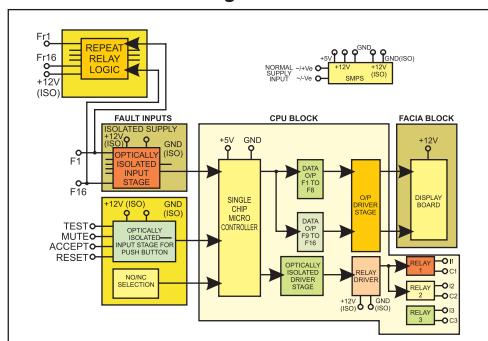
- Any custom built operating sequences
- Manned / Unmanned function
- MODBUS RTU/ASCII Protocol

- Fault Follower contact output per fault Input (NO or NC)
- Supply fail indication / annunciation Built-in
- Built-in control push buttons

Back view showing Terminal details

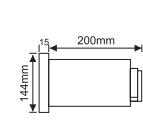
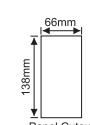
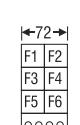
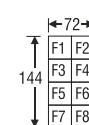
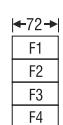
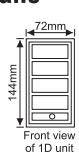


Functional Block Diagram

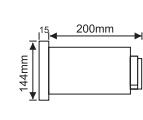
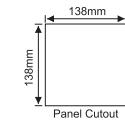
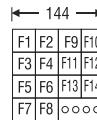
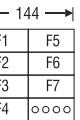
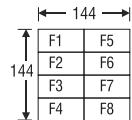
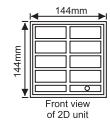


Dimensional & Panel Cutout Details

1D



2D



MBAS 0600 / MICRO 17

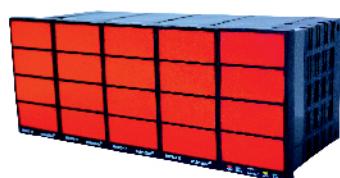


4D



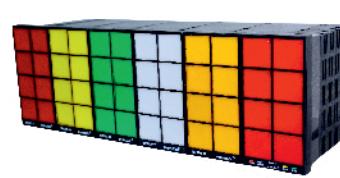
416BOS00

5D



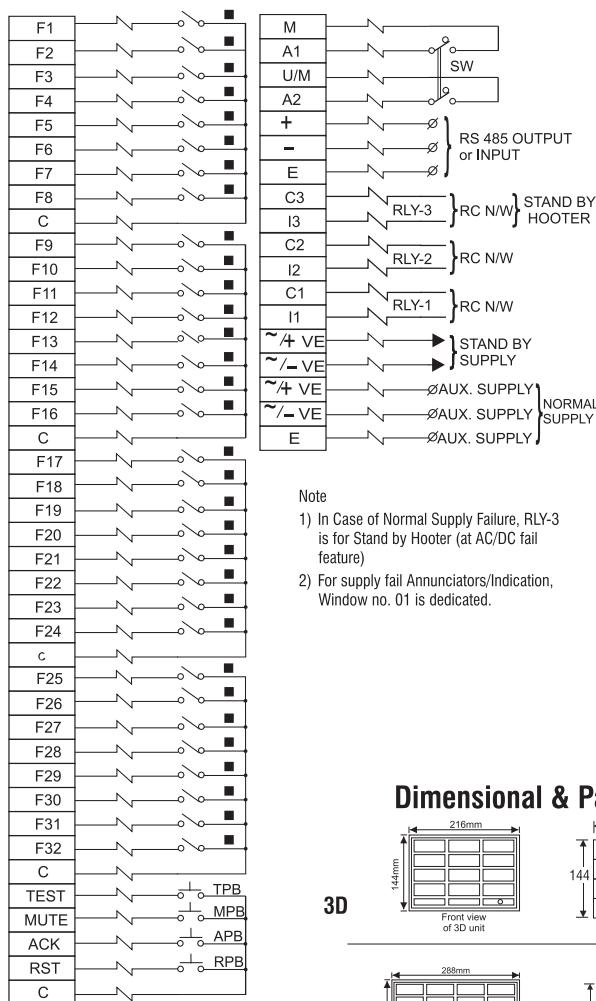
520BOSMPO

6D



624BOSMPO

Connection Diagram (FOR MAX. 32 POINT MBAS 0600.)

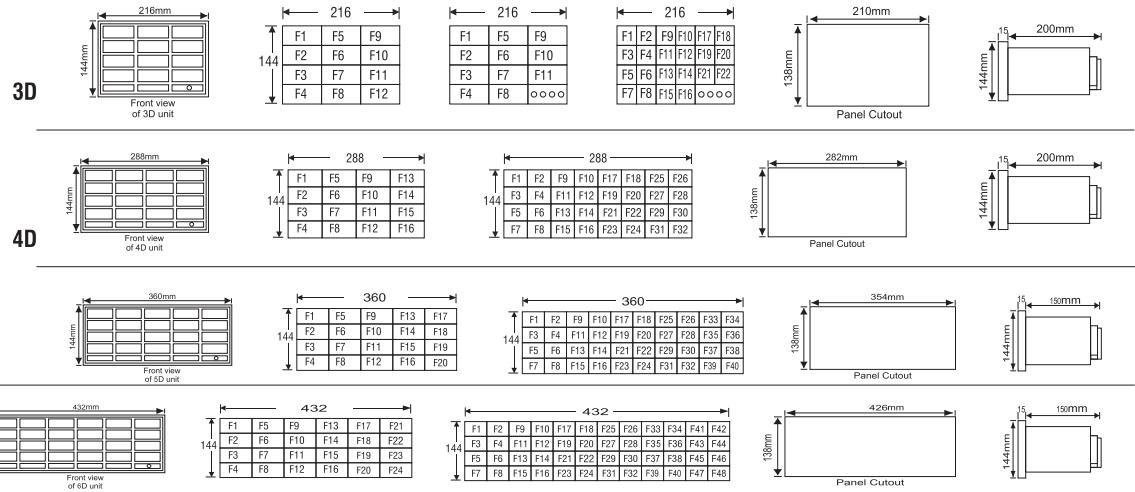


TECHNICAL SPECIFICATIONS :

Supply Voltage	24 / 30 / 48 / V DC, 20-60 V DC, 90-270 V AC / DC	Note: Mention specific voltage (Fixed/wide range) in order		
Supply Frequency [FOR AC]	50 / 60 Hz ± 3%			
Windows	4 / 6 / 8 / 12 / 16 / 18 / 22 / 24 / 32 / 40 / 48			
Window Sizes	30 x 30mm / 30 x 65 mm			
Display Device	Super bright high efficiency low power consuming LEDs			
Facia Type	Individual windows lens Front Replaceable			
Window Colours	Red, Yellow, Amber, Green, White & Blue			
Flash Rate	Fast - 60 flashes/min. Slow - 30 flashes/min.			
Response Time	40 msec.			
Input Signal	Potential free contacts (NO or NC site selectable) or through RS 485 port.			
Grouping	Trip / Non Trip site selectable			
Interrogation Voltage	+ 12 V DC			
Output Contacts	1 NO + 1 NO + 1 NO (optional)			
Architecture	Integral			
Operational Sequences (site selectable)	Auto/Manual/First-up/Ringback (optional) OR any other sequence on request			
Operational Temp.	0°C to 60°C			
Power Consumption	1.5 Watts per Window (Max)			
Optional	AC-DC fail Annunciation or Indication / Repeat Relays / RS232 - 485 Port			
Dimensions (mm)	1D 138x66 2D 138x138 3D 138x210 4D 138 x 288 x 215			
Panel Cutout (HxW)	138x66	138x138	138x210	138 x 288 x 215
Overall (H x W x D)	144 x 72 x 215	144 x 144 x 215	144 x 216 x 215	144 x 288 x 215
5D 6D				
Panel Cutout (HxW)	138x354	138 x 426		
Overall (H x W x D)	144 x 360 x 165	144 x 432 x 165		

Wherever not specified Contact Rating : 5A @ 230 V AC (resistive) * CE marked products available on request.

Dimensional & Panel Cutout Details



NOTE : Tolerance for all cutout dimensions = + 1.5 mm.

ALARM ANNUNCIATORS

MBAS 9700



PSU Rack



MCU Rack

STANDARD FEATURES

- Single chip micro-controller logic.
- Super bright LED's for window illumination.
- Site selectable NO/NC type fault contacts.
- Site selectable trip /Non trip (Grouping).
- Easy card replacement & hence fault diagnosis.
- Switch Mode Power Supply. (Suitable for Both AC/DC Supply)
- High noise immunity and wide input supply variation.
- Opto-isolated Inputs and Outputs.
- Site Selectable sequences.
- Potential free dry input contacts.
- Two different window sizes.
- Replaceable window lens & window legends.
- Computer linking for fault logging with printer facility for report.
- Self-surveillance watch dog LED.
- Relay output for external audible hooter.
- Diagnostics Menu
- Redundant Power Supply
- CPU fail & PSU fail indication with relay output contact
- User Friendly terminal Connectors

CONSTRUCTIONAL DETAILS

- MBAS 9700 consist of four basic sections
- 1) The Power Supply Unit (PSU Module).
 - 2) The Main Control Unit (CPU + IOU Module).
 - 3) The Display Facia Unit (DFU Module).
 - 4) Computer interface.

THE MAIN CONTROL UNIT (MCU)

CPU module is the Main Processing Unit of MBAS 9700 which scans and processes the incoming fault signals from the various potential free field contacts through IOU module, and drives the corresponding LED windows and the audible device in order to annunciate the fault through IOU module. The IOU module is the input & output interfacing unit. To each IOU module 16 input contacts (potential free) & 16 window LED's can be connected.

MINILEC offers its unique alarm Annunciator based on the latest single chip micro-controller technology with serial communication facility. Available in 19" rack type enclosure. MBAS 9700 annunciators have split architecture for 16, 24, 32, 40, 48, 64, 80, 96, 112 & 128 windows. 24, 32, 48, 64, 80, 96, 112, & 128 window models are housed in 19" rack type enclosures, separate for MCU & for PSU. Here choice of facia (DFU) is of 3 types (a) Small size i.e. 30 x 30 mm and (b) Big size is 30 x 65 mm (c) 50 x 70 mm. (on request) Facia is available in multiples of 16 windows. In addition to all other standard features, MBAS 9700 has additional facility of computer linking. A serial port (RS232/RS485) output is available which can be supported by an IBM compatible PC of minimum 386 configuration. Minilec can supply the standard software with every model or can develop suitable software as per customer requirements or can provide source coding / protocol details to enable client to develop their own suitable software.

THE POWER SUPPLY UNIT (PSU)

PSU converts the available power source into a regulated and filtered DC output, which is fed to the MCU Module & DFUs. The power supply can accept Specified AC or DC I/P supply, depending upon the application. Redundant Power supply is available.

OPTIONAL FEATURES

- Different colored LED's in each window for easy differentiation of critical faults.
- Customized preprogrammed operating sequence.
 - Multi channel serial communication (8 Annunciators & single computer)
 - Repeat Relay Card

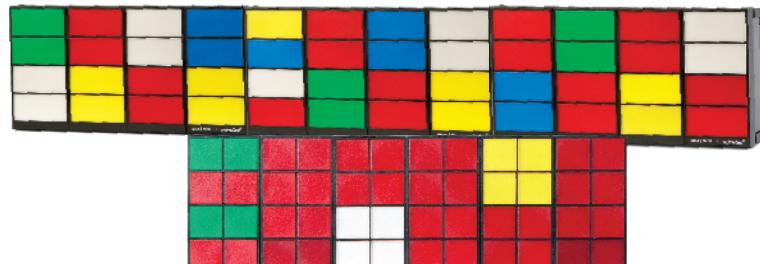
THE DISPLAY FACIA UNIT (DFU)

The Facia block is accessible from front (in moulded enclosure) and constitutes of window capsules. The sandwiched photo film window inscriptions are press fitted on the window capsules. For 16 to 128 points system the DFUs are given separately.

MBAS 9700



| 16 Pt. DFU Big Windows | 16 Pt. DFU Big Windows | 16 Pt. DFU Big Windows |



16 Pt. DFU : Small Windows

COMPUTER INTERFACE

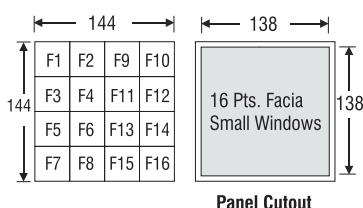
The MCU unit transmits fault information to computer serially. RS232/RS485 standard is used for serial communication. Communication protocol modbus ASCII / RTU can be offered. In computer user-friendly software is written. This software offers online Date & Time setting, Legend setting, Display window & also it gives fault report with on demand printing facility.



Dimensional Details for Facia



Panel Cutout



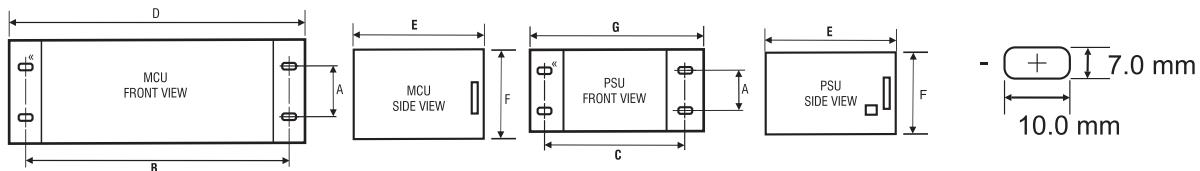
Panel Cutout

TECHNICAL SPECIFICATIONS:

1.0	Supply voltage	20-60 VDC, 90 - 270VAC/DC Note: Mention specific voltage 50 / 60 Hz. ($\pm 3\%$) for AC
2.0	Supply frequency	
3.0	Input	
3.1	Fault Alarm Inputs.	Actuation Through Fault Contacts
3.2	Fault contacts.	Potential free (volt free) type
3.3	Input interrogation voltage	+12V DC(ISO)
3.4	Input isolation	Opto isolating device.(2 KV)
3.5	Response Time	40 msec.
3.6	Site selectable DIP for Fault type Grouping Sequence selection	NO/NC Trip/Non Trip Manual/Auto/Ring back (optional)/Firstup
4.0	Output	
4.1	Output contacts	1NO+ 1NO +1NO (optional) 1NC
4.2	Output contact for CPU & PSU fail	5 amp at 240 VAC (Resistive)
4.3	Contact Rating	
5.0	No. of windows	16/24/32/40/48/64/80/96/112/128
5.1	Windows dimensions	30 mm x 30 mm For small windows 30 mm x 65 mm For big windows
5.2	Window Colours	Red/Yellow/Amber/Green/White/Blue
5.3	Flash rates	Fast flash - 50-60 flashes / Min. Slow flash - 25-30 flashes / Min.
5.4	Power Consumption	1.5 W per Window. (Max)
6.0	Sequence	Manual, Auto, Ring back (optional), Firstup (Any Other Sequences On Request)
7.0	Serial communication	RS232/RS485 (with modbus ASCII/RTU) optional

ALARMS ANNUNCIATORS - MBAS 9700

DIMENSIONAL DETAILS - MCU & PSU



MCU & PSU for 16 to 64 windows are housed in one rack.

90 - 270 VAC/ DC

Overall Dimensions (DFU)

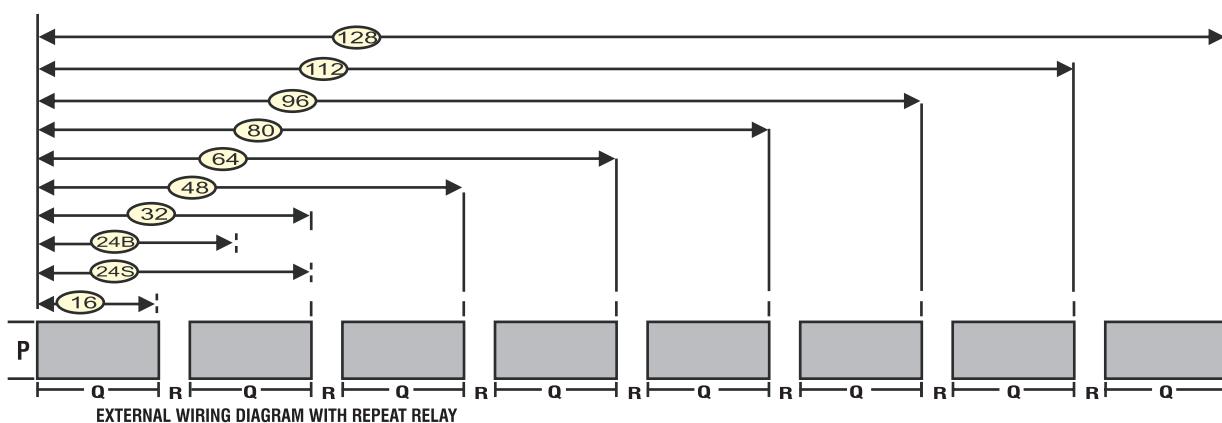
MODELS	MOUNTING DIMENSIONS (mm)			OVERALL DIMENSIONS (mm)			
	A	B	C	D	E	F	G
128 POINTS	57.15	465.10	292.38	482.60	283.00	132.50	309.88
112 POINTS	57.15	419.38	292.38	436.88	283.00	132.50	309.88
96 POINTS	57.15	373.66	241.58	391.16	283.00	132.50	259.58
80 POINTS	57.15	327.94	241.58	345.44	283.00	132.50	259.58
64 POINTS	57.15	434.62	-----	452.12	283.00	132.50	-----
48 POINTS	57.15	388.90	-----	406.40	283.00	132.50	-----
40 POINTS	57.15	388.90	-----	406.40	283.00	132.50	-----
32 POINTS	57.15	292.38	-----	309.88	283.00	132.50	-----
24 POINTS	57.15	292.38	-----	309.88	283.00	132.50	-----
16 POINTS	57.15	246.66	-----	264.16	283.00	132.50	-----

20 - 60 V DC

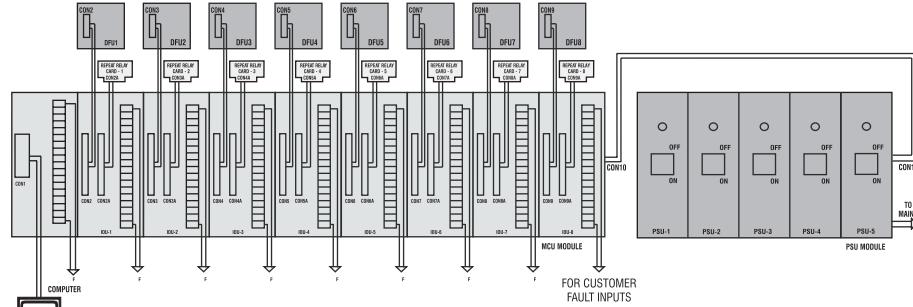
MODELS	MOUNTING DIMENSIONS (mm)			OVERALL DIMENSIONS (mm)			
	A	B	C	D	E	F	G
128 POINTS	57.15	465.10	393.98	482.60	283.00	132.50	411.48
112 POINTS	57.15	419.38	393.98	436.88	283.00	132.50	411.48
96 POINTS	57.15	373.66	292.38	391.16	283.00	132.50	309.88
80 POINTS	57.15	327.94	292.38	345.44	283.00	132.50	309.88
64 POINTS	57.15	327.94	241.58	345.44	283.00	132.50	259.58
48 POINTS	57.15	439.70	-----	457.20	283.00	132.50	-----
40 POINTS	57.15	439.70	-----	457.20	283.00	132.50	-----
32 POINTS	57.15	343.18	-----	360.68	283.00	132.50	-----
24 POINTS	57.15	343.18	-----	360.68	283.00	132.50	-----
16 POINTS	57.15	246.66	-----	264.16	283.00	132.50	-----

* Above Mentioned Dimension Details are of MBAS 9700 with repeat relay.
For Dimension Details of MBAS 9700 without repeat relay, Please Contact Minilec Representative

PANEL CUTOUT DETAILS - DFU



EXTERNAL WIRING DIAGRAM WITH REPEAT RELAY



MBAS 08



4 Windows PB + 2 Buzzer



6 Windows PB + 2 Buzzer



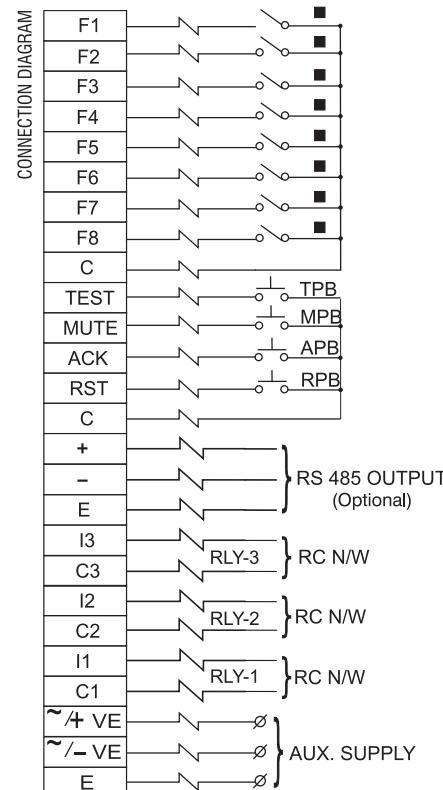
7 Windows + PB



8 Windows

Most compact alarm Announcer with improved window design and all major features of MBAS 0600 Announcer. Models with built-in Buzzer & Push buttons also available.

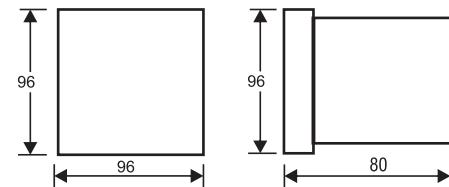
Supply Voltage	90 to 270 VAC/DC 12VDC /24VDC /30VDC /48VDC	Note: Mention specific voltage (Fixed/wide range) in order
Supply Frequency [FOR AC]	50 / 60 Hz ± 3%	
Windows	4 / 6 / 7 / 8 [max]	
Display (Window)	Window lenses replaceable Legends replaceable.	
Window Dimensions		
Small	17 X 37 mm.	
Big	27 X 37 mm. for 4 Windows model only	
Power Consumptions	1.5 Watts per Window (Max)	
Flash Rate	50 - 60 Flash per min. in fast flashing 20 - 30 Flash per min. in slow flashing	
Operating Sequence	S1, S2, S3, S4 (Site Selectable)	
Other Features	<ul style="list-style-type: none"> • NO / NC and Grouping (Trip/Non trip) Selection • Supervisory Contact output. 	
Optional Features	<ul style="list-style-type: none"> • Any other operating sequence. • RS485 Output 	
Input Signal	Potential Free contacts	
Input Interrogation Voltage	+12 VDC	
Window Colours	Red, Green, Yellow, Amber, Blue, White.	
Output Contacts	1 NO + 1 NO [For Hooter] 1NO For Ring back or Supervisory contact (Optional)	
Output Contact Rating	5 Amp., 240V AC (Resistive)	
Inbuilt Push Buttons	4 NOS. (Test, Mute, Accept, Reset) Membrane type (Optional)	
Communication	RS485 (MODBUS RTU/ASCII) (Optional)	
Operational Temp. Limit	-5°C to 60°C	
Humidity	Up to 95% Rh	
Enclosure	ABS moulded enclosure	
Unit Dimensions	96 X 96 X 76 mm	
Overall (H x W x D)	96 X 96 X 137 mm (For 12 V DC Supply Model)	
Cutout (H x W)	92 x 92 mm	
Weight	550gms	



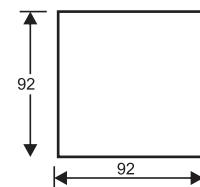
PROGRAMMING OF MBAS 08

SR. NO.	KEY OPERATION	MODE OF OPERATION	WINDOW STATUS	WDL STATUS
1	---	Normal Run Mode	As per operation	Flashing @ 1 flash/sec.
2	TEST + ACK Pressed (for 5 Sec.)	Sequence selection	Windows fast flashes for 2 to 3 sec. W1 - ON - S1 W2 - ON - S2 W3 - ON - S3 W4 - ON - S4	Flashing @ 1 flash/sec.
3	TEST + ACK Pressed (for 5 Sec.)	NO / NC selection	W - ON - NO W - OFF - NC	Off
4	TEST + ACK Pressed (for 5 Sec.)	Grouping selection	W - ON - Group 1 W - OFF - Group 2	Steady On
5	TEST + ACK Pressed (for 5 Sec.)	Device ID selection	As per chart in Manual	Fast Flashing
6		Auto exit after 10 Seconds		

OVERALL DIMENSIONS

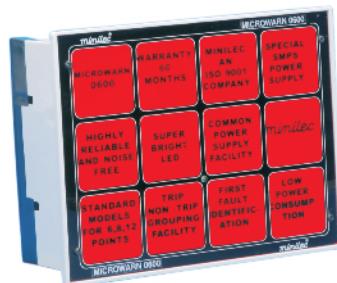


CUT OUT DIMENSIONS



ALARMS ANNUNCIATORS

MICROWARN 0600



12 Windows Model



Now with
Reduced depth



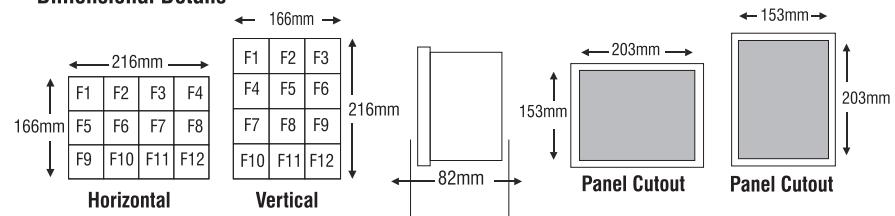
8 Windows Model
with push button

TECHNICAL SPECIFICATIONS:

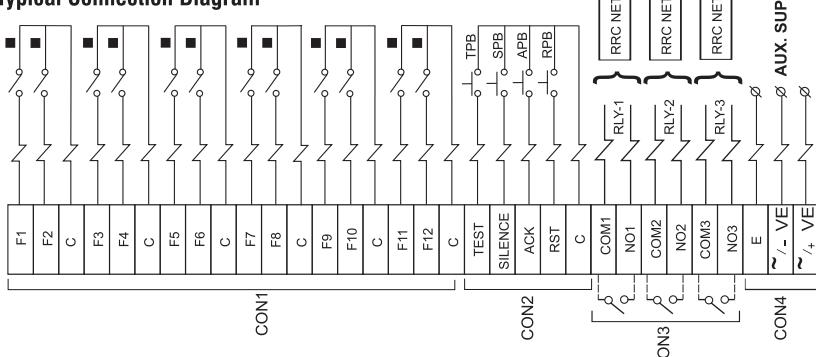
Supply Voltage	24/30/48/V DC, 20-60 V DC, 90-270V AC/DC	Note: Mention specific voltage (Fixed/wide range) in order
Supply Frequency [FOR AC]	50/60 Hz ± 3%	
Windows	12/8/6	
Window Sizes	45 x 45 mm	
Display Device	Super bright high efficiency low power consuming LED's	
Facia Type	Front Replaceable	
Window/LED Colour	Standard colour available RED, Optional colours Yellow, Green	
Flash Rate	Fast - 60 flashes/min. Slow - 30 flashes/min.	
Response Time	40 msec.	
Input Signal	Potential free contacts (NO or NC site selectable)	
Grouping	site selectable (Trip / Non Trip)	
Interrogation Voltage	+ 12 V DC	
Output Contacts	1 NO + 1 NO (optional) + 1 NO	
Architecture	Integral	
Operational Seq.	ISA Standards sequences - Auto/Manual/First-up/Ringback (optional) OR any other sequence on request	
Operational Temp.	-5°C to 60°C	
Power Consumption	1.5 Watts per Window (Max.)	
Optional	AC-DC fail Annunciation	
Dimensions (mm)	Horizontal Vertical Panel Cutout (H x W) 203 x 153 Overall (H x W x D) 166 x 216 x 82 216 x 166 x 82	

Wherever not specified Contact Rating : 5A @ 230 V AC (resistive) * CE marked products available on request.

Dimensional Details



Typical Connection Diagram



Note: For Microwarn 0600 with Built in supply fail annunciation over all dimensions will be (LWXWD)

Horizontal - 166 X 216 X 147

Vertical - 216 X 166 X 147.

Panel Cutout will same.

Optional Features:

- 3rd Supervisory Relay
- Built in supply fail annunciation

MBAS 11



MBAS 11



Repeat Relay Card

MBAS 18



MICROFACIA



MF951



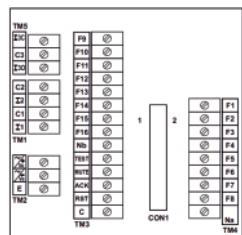
MF955

These are LED Facia windows with Potential input. Microfacia is available in either 4 Big or 8 Small windows size. Standard models available for 12V/24V DC and 110V/230V AC/DC.

MBAS 11 (with potential input) and MBAS 18 (with potential free input) are 16 point Microprocessor Based Alarm Announciators, having one Supervisory Relay contact, one Hooter contact & one Group Fault contact. Also having inbuilt Push Buttons for Test, Mute, Acknowledge & Reset.

TECHNICAL SPECIFICATIONS:

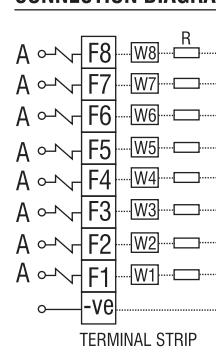
Supply Voltage	90-270 V AC/DC	90-270 V AC/DC
Supply Frequency [FOR AC]	50/60 Hz ± 3%	50/60 Hz ± 3%
Windows	16 Fixed	16 Fixed
Display (Window)	Single LED Type	Single LED Type
Legend Window Dimension (HxL)	06x26mm	06x26mm
Flash Rate	50-60 Flash / min.	50-60 Flash / min.
Legends	Pre-Printed Positive on Paper	Pre-Printed Positive on Paper
Facia Type	Front Replaceable	Front Replaceable
LED Colour for Window	Red Only	Red Only
Input Signal(For Faults)	110 VDC / 220 VDC / ± 20 (With -ve common)	Potential free
Input Interrogation Voltage (For Keys)	(+)12 VDC	(+)12 VDC
Output Contacts	Three opto isolate Electromagnetic Relay. 1 NO (For Hooter) 1 NO (For group Faults) 1 NC (For Supervisory Contact)	Three opto isolate Electromagnetic Relay. 1 NO (For Hooter) 1 NO (For group Faults) 1 NC (For Supervisory Contact)
Output Contact rating	5 Amp. 240 VAC (Resistive)	5 Amp. 240 VAC (Resistive)
Architecture	Integral	Integral
Operational Seq.	1. Manual Reset (S1) with Lamp Test having Group Relay (Fixed) alarm feature. Grouping is Fixed. Fixed NO type. OR 2. Auto Reset (S2) with Lamp Test having group relay (Fixed) alarm feature. Grouping is Fixed. Fixed NO type (Factory Set)	1. Manual Reset (S1) with Lamp Test having Group Relay (Fixed) alarm feature. Grouping is Fixed. Fixed NO type. OR 2. Auto Reset (S2) with Lamp Test having group relay (Fixed) alarm feature. Grouping is Fixed. Fixed NO type (Factory Set)
Operational Temp.	0°C to 60°C	0°C to 60°C
Storage Temperature	-10°C to +70°C	-10°C to +70°C
Humidity	Upto96% Rh	Upto96% Rh
Unit Dimensions		
Overall (H x W x D)in mm	96 X 96 X 108 mm	96 X 96 X 108 mm
Cutout (H x W)in mm	92 x 92 mm	92 x 92 mm



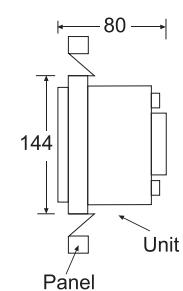
TECHNICAL SPECIFICATIONS:

PARAMETERS	Note: Mention specific voltage (Fixed/Wide range) in order
Auxiliary Supply	12 / 24 / 110 VAC/DC / 220 V DC / AC
Input	Potential Contact
Output	Window Facia LEDs on front
Window Colours	Red, Yellow, Green, White, Blue
Power Consumption	1.5 Watts per Window
Unit Dimensions (mm) 110 / 220 VDC.	Overall (H x W x D) (144 x 72 x 80) (144 x 72 x 215)
Dimensions(mm)Window	for Small 30 x 30, for Big 30 x 65 mm.
Weight (Approx.)	250 gms.

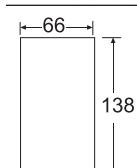
CONNECTION DIAGRAM



OVERALL DIMENSIONS



PANEL CUTOUT



Potential Inputs

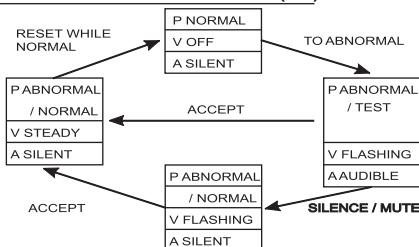
ALARM ANNUNCIATORS

STANDARD OPERATING SEQUENCES

The MINILEC Annunciation systems are programmed to operate as per following operating sequences confirming to ISA standards. Other sequences / non standard sequences are given as per customer's requirement.

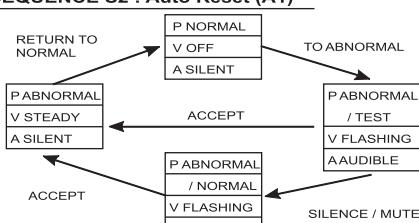
Minilec Sequence Code	Operating Sequence Title	ISA Std. Code
S1	Manual Reset	M1
S2	Auto Reset	A1
S3	Ringback	R1-12
S4	First UP	F2M-1

SEQUENCE S1 : Manual Reset (M1)



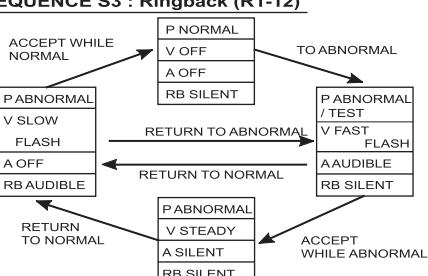
- Test, Silence Accept, Reset Push Buttons are external.
- Audible alarm can be silenced by pressing Silence (Mute) Push button.
- Manual reset of Accepted faults after process conditions return to normal.
- Operation test provided.

SEQUENCE S2 : Auto Reset (A1)



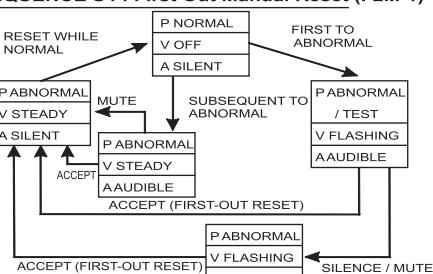
- Test, Silence Accept, Reset Push Buttons are external.
- Audible alarm can be silenced by pressing Silence (Mute) Push button.
- Automatic reset of Accepted faults after process conditions return to normal.
- Operation test provided.

SEQUENCE S3 : Ringback (R1-12)



- Test, Silence Accept, Reset Push Buttons are external.
- Alarm & ringback Audible devices.
- Audible device or ringback alarm can be silenced by pressing Silence (Mute) Push button.
- Ringback visual & audible alarm when process status returns to normal.
- Operation test provided.

SEQUENCE S4 : First Out Manual Reset (F2M-1)



- Test, Silence Accept, Reset Push Buttons are external.
- First-out flashing and subsequent steady.
- Manual reset of Accepted faults when process status return to normal.
- Operation test provided.

F3 MEH1 / F3 MEH2 ELECTRONIC HOOTER

NO PARAMETER SPECIFICATION DETAILS

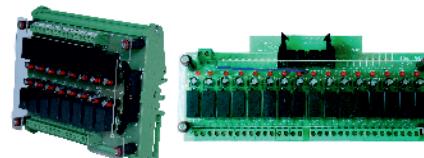
- Aux. Supply 24V AC / DC, 48V AC / DC, 90-270V AC / DC, 24 – 250 VAC / DC (For F3 MEH1 only)
- Frequency 48 to 63 Hz in case of VAC model
- Power consumption 20 VA max.
- Standard sound output 90 to 115 db at 30cm (For F3 MEH1) 90 to 115 db at 1 mtr. (For F3 MEH2)
- Tone Three different selectable tones
- Volume level adjustment Continuous adjustable by means of built-in Potentiometer
- Indication Power on 3mm RED
- Mounting Type Panel Mounting & Wall Mounting
- Operating Temperature 0 to +60°C
- Humidity Up to 95% RH
- Enclosure Non-condensing ABS molded enclosure
- Unit Dimensions (mm) 96 x 96 x 82
- Cut out (Lx W) 92 x 92
- Unit Weight (gms.) Appx. 400 gms.



OPTIONAL ACCESSORIES

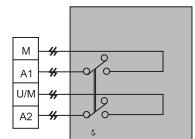
Repeat Relay Card

External Repeat Relay Cards can be connected for remote annunciation or interfacing with SCADA or DCS hardware. These cards are connected by plug-in type pre-fab cables. Repeat Relay Card is suitable for NO type Fault contacts only.



Manned / Unmanned Facility

This feature allows disabling the audio & visual indication on fault occurrence if the station is unmanned. The annunciator registers & records all faults occurring during unmanned mode and displays again manned mode.



Note:

P : Process Status, V : Visual Alarm Status,
A : Audible Alarm Status,
RB : Ringback audible alarm status.