

**Certification Standards: -**

**MED Wheelmark, IEC 62616:2010 (GL) & MSC.128(75) GL, RMRS, CCS, KR, CR & USCG**

**BNWAS Input / Output Specifications**

Inputs: -			Outputs: -		
Type	Supply Voltage	Power	DB Alarms & CU Status Displays		
BNWAS / 1	Primary 24Vdc (18-36Vdc)	3.2W to 4.5W (max illum) + optional equipment	Bridge Visual (15 secs)	LED + volt free N/O contact rated 5A @ 30Vdc/220VAC	
	Emerg 24Vdc (18-36Vdc)				
BNWAS / 2	115/230VAC 50/60Hz				
	Backup 24Vdc (18-36Vdc) Emerg 24Vdc (18-36Vdc)				
Auto (Remote) Activation via DB1 & DB2			Bridge Audible (15 secs)	LED + volt free N/O contact rated 5A @ 30Vdc/220VAC	Tone & Volume installation adjustable
Two Opto isolated input types: -					
NMEA sentence \$XXHTD		Installation selectable for 4800 or 38,400 baud	Officer Call (90 - 180 secs)	LED + volt free N/O contact rated 5A @ 30Vdc/220VAC	90, 120, 150, 180 secs installation adjustable
Analogue Voltage 11-40Vdc		Installation selectable switchline polarity			
Operator Controls			Crew Call (Until Reset)	LED + volt free N/O contact rated 5A @ 30Vdc/220VAC	Can be combined with Officer Call
Time	3 to 12 minutes selectable in 1 min increments	Keyswitch security protected			
Work Mode	Selectable 'ON', 'OFF' or 'AUTO' Mode	Keypad	AC Power Fail (BNWAS 2)	Status LED	Volt free N/O contact rated 5A @ 30Vdc/220 VAC for ext. console malfunction alarm
Illum	Variable Red LED Backlight				
Reset	Cancels all alarms and resets timing cycles	Pushbutton	DC Power Fail	Status LED	
Emergency Call	Summons immediate Officer assistance	Protected pushbutton	Computer Fail	Status LED	
Reset (Remote Unit)	Cancels alarms / Restarts timing / Adjusts Remote unit illumination level	Pushbutton	Tamper	Status LED	To external Fail Alarm
			Complete Power Fail	Volt free S/P C/O contact	
Digital Interface Unit (DIU)					
3 x Opto Isolated IEC 61162 Serial Data Installation Selectable for 4800/38400 baud.					
CH1	\$xxEVE, \$xxALR, \$xxACK		\$BNALR, \$BNACK		
CH2	\$xxEVE, \$xxALR		\$BNALR, \$BNACK		
CH3	\$xxEVE				
3 x Opto Isolated (5-40Vdc) Analogue			1 x Voltfree Changeover Relay Contact (1A 240Vac/30Vdc) Malfunction Alarm		
2 x Reset Inputs From Proprietary Equipment					
1 x Emergency Call Input From Required Location					
Movement (PIR) Detectors			Operating Temperature Range		
2 x Reset Inputs			-15 to +55°C		
Mechanical			Compass Safe Distance (CSD)		
	Dimensions (mm)	Weight			
Display Unit	144 x 144 x 47 (depth)	1.0Kg	0.2m		
Distrib (DB1)	222 x 146 x 55 (depth)	0.85Kg	0.2m		
Distrib (DB2)	275 x 175 x 65 (depth)	1.5Kg	0.2m		
Rem. Reset	58 x 64 x 35 (depth)	0.2Kg	0.2m		
Bridge Visual (BVA)	93 dia x 65 (depth)	0.15Kg	0.1m		
Selector Switch (OSS)	95 x 145 x 49 (depth)	0.5Kg	0.1m		
Cabin Sounders (CA/MCA)	90 x 115 x 55 (depth)	0.5Kg	0.1m		
Switch Unit (ADU)	300 x 150 x 120 (depth)	3.1Kg	0.25m		
100dB Sounder (AU1 AC/DC)	86 x 86 x 64.5 (depth)	0.25Kg	0.1m		
112dB Sounder (AU2 AC/DC)	130 x 130 x 133.5 (depth)	0.75Kg	0.1m		
Movement Detector (PIR)	60 x 106 x 46.5 (depth)	0.15Kg	0.1m		
Digital Interface Unit (DIU)	146 x 222 x 55 (depth)	0.9Kg	0.1m		
Emergency Battery Box (UPS)	146 x 222 x 106.7 (depth)	3.0Kg	0.2m		