

# Critical Alarm Monitoring System AplusWEB

Model: AW-920



simple, yet Empowering

## Overview

Monitoring and control system today requires real-time performance, remote access and use of mobile technology for anywhere, anytime fault and alarm notification. This is crucial for an effective and timely management of equipments, facilities or services. AplusWEB was designed to do all that and more. It interfaces to any equipment or device to provide wireless SMS alert, remote monitoring and control. AplusWEB is simple to use yet it's packed with powerful functionalities to meet a wide range of industrial and commercial applications.

## SMS Alert



## Benefits

- Easy to install, operate and maintain
- Low maintenance
- Low cost of ownership
- 24 x 7 operation
- Dedicated standalone operation
- No need to use a PC or any external application software
- Open standards protocol, easy for external application interface

## Features

- Standalone - full functionality housed in one small and robust chassis
- User-friendly HTML interface, provides access from any web browser
- 8 protected universal digital inputs (dry contacts)
- 2 digital relay outputs
- 2 analog inputs (4 - 20 mA)
- Configurable SMS repeat interval
- Remote add / edit / delete phone group
- Remote query of phone group, input & output status
- Remote on / off via SMS command
- Configurable auto-health check
- Time stamping on all alarm input triggers

## Applications

- Data Centre**  
(UPS, Air-con, Router, Server, Fire alarm panel, Generator, Water leakage detector, Security, Lighting, Power quality / distribution, Etc)
- Manufacturing Process**  
(Process error, PLC, Sensor, Machine status, Vision, Alarm signals, Vacuum, Electric transformer, Pressure valve, Gas tank, Over voltage, Etc)
- Telecommunication**  
(Power, Water leakage detector, Air-con, UPS, Etc)
- Fire and Security**  
(Door Sensor, Smoke detector, Alarm panel, Annunciator)
- Facility Maintenance**  
(Lift, Elevator, Pump, ATS, Gen Set, Chiller, HVAC, HT / LT, Oil temperature, Oil pressure, Water level, Etc)
- Energy & Power Management**  
(Voltage sag, Over voltage, Under voltage, Power outage, DC system)
- Environmental**  
(Temperature, Humidity, Co2, Wind speed, Water, Etc)
- HVAC**  
(Run, Trip, Fault, Etc)
- M & E Facility Management**  
(Tracking, Maintenance, Etc)
- Other mission critical application**

## User Friendly Web Interface

| pb AplusWEB<br>PICOBOX Model: AW-920 |                  |                       |  |           |
|--------------------------------------|------------------|-----------------------|--|-----------|
| M E N U                              | Device ID: Aplus | 192.168.1.30 (Static) | CSM Network: Signal Strength: Unavailable 0%         |           |
| Status                               | IP Address:      | 192.168.1.30 (Static) | Login Date & Time: Administrator 01/03/1981 23:44:36 |           |
| id Config                            | Input            | Description           | Status   |           |
| Phone Group                          | X1               | Input X1              | open   |           |
| Administration                       | X2               | Input X2              | open   |           |
| About                                | X3               | Input X3              | open   |           |
| Help                                 | X4               | Input X4              | open   |           |
| Logout                               | X5               | Input X5              | open   |           |
|                                      | X6               | Input X6              | open   |           |
|                                      | X7               | Input X7              | open   |           |
|                                      | X8               | Input X8              | open   |           |
|                                      | Output Relay     | Description           | Status   | Control   |
|                                      | Y1               | Output Y1             | OFF  | ON OFF    |
|                                      | Y2               | Output Y2             | OFF  | ON OFF    |
|                                      | Analog           | Description           | Status   | Value     |
|                                      | A1               | Analog A1             | High (Alarm)   | 89.7      |
|                                      | A2               | Analog A2             | High (Alarm)   | 92.2      |
|                                      | Battery          | Battery               | Low  | 1.1 Volts |

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## Specifications

|                        |  |
|------------------------|--|
| Operating Voltage      | 9 to 18VDC, 2W max power consumption   |
| No of Inputs           | 8 digital protected inputs, volt-free / dry contact  |
| No of Outputs          | 2 relay outputs, contact rated at 30VDC 2A   |
| No of Analog points    | 2 analog input, 4 - 20mA   |
| Communication Port     | 1 x RJ45 port, Ethernet 10/100Mbit   |
| GSM Modem              | Quad Band GSM 850 / 900 / 1800 / 1900 Mhz  |
| Configurable Mobile No | Up to 8 + 1 Mobile Phones (Accepts International Phone number format and support AutoRoaming)        |
| Remote Setting         | Remotely add, change, delete mobile number via SMS (Authorization required)                          |
| Remote Control         | Remotely turn ON / OFF / PULSE devices using SMS   |
| Configurable SMS Msg   | User configurable for all input and output messages  |
| Forwarding             | Forwarding of events to a specified number for remote logging purpose                                |
| Humidity               | 0 - 90% non-condensing   |
| Operating Temperature  | 0 - 55 degree celsius  |
| Physical Size          | 70 (L) x 38 (H) x 100 (D) mm   |
| Weight                 | 200 gm   |
| Security Features      | Password protected access and phone number checks  |
| Real Time Clock        | Date time with battery backup  |
| System Health Check    | Remote Health check features via SMS   |
| I/O Status             | Remote I/O query via SMS   |
| Indicators             | Power, Telco Network, Signal Low   |
| Repeat SMS Alarms      | User Configurable  |
| Mounting               | Industrial standard ABS housing with Din rail mounting, Pluggable 5mm screw terminal block           |
| Auto health-check      | Yes  |
| Network protocol       | TCP (Transmission Control Protocol)<br>IP (Internet Protocol)<br>HTTP (Hyper Text Transfer Protocol) |

## Top & Bottom View



## Intelligent DC Supply

DPC1204E



Model : DPC-1204E  
 Input : 230VAC  
 Output : 12V, 3A max, 1A continuous  
 Battery : 12V, 4AH Sealed Lead Acid (External)  
 Dimension : 160(d) x 150(w) x 65(h) mm  
 Weight : 1.8kg (battery) . 790g (charger)  
 Features : Smart charger with over-charging & over discharging protection  
 : Relay output signal for power failure Alarm  
 : LED indicators for AC and DC power supply

## External Antenna

ANT3DB



Model : Ant3db3M  
 Type : 3db gain 900/1800Mhz Antenna  
 Mount : Magnetic base mounting  
 Length : 32 cm  
 Features : Boost up antenna signal in enclosed area

## Temperature Sensor

TS-70



Power : DC 12V  
 Interface : 2 wire loop powered, non polarized  
 Output : 4 - 20mA  
 Dimension : 75(l) x 55(w) x 25(h) mm  
 Accuracy : +/- 0.5 °C  
 Range : Range 0-70 °C  
 Features : IC sensor provides linear and accurate measurement

## Temperature & Humidity Sensor

THS-90R



Power : DC 12V  
 Interface : 4 wire (2 Power, 1 Temp, 1 Humidity)  
 Output : 4 - 20mA  
 Dimension : 112(l) x 88(w) x 42(h) mm  
 Accuracy : +/- 0.3 °C, +/- 2% RH  
 Range : 0-50 °C, 0-100%RH  
 Features : IC sensor provides linear and accurate measurement

## Water Detection Sensor

SP-10



Power : 12-24V AC/DC  
 Output : Open collector drive  
 Type : Spot Water Detection Sensor  
 Dimension : 24(h), 44(diameter) mm  
 Features : Detects water on flat surface  
 : Fully sealed water proof casing  
 : Adjustable sensing height  
 : Visual alarm indication

In the interest of product development, specifications are subject to changes without prior notice

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