

PARTS LIST

JANUARY 2012



Asper Systems Ltd
Laboratory Alarm & Monitoring Systems

GENERAL INFORMATION

The Systems have been split into three, they are as follows :-



AS300 System (Page 4)

Notes have been given on page 4 regarding the suitability of choosing the correct receiver for the customers application.

AS200 System (Page 6)

1. We would recommend that all new systems purchased use the AS300RX or AS300 Communicator. If an AS200RX receiver is required we would also recommend an AS300 Communicator is also purchased as this will give text information on transmitters and web access if required.
2. For existing AS200 system, a simple upgrade using the AS300 Communicator will greatly advance the system allowing access by text to current values in the transmitters and web data if required. Existing AS200RX receiver can be left to work in conjunction with the AS300 Communicator. Installation of the AS300 Communicator only requires it to be powered up and the base to be set to the same as existing AS200RX receiver.

SERVER BASED FACILITIES FOR AS300 UNITS (Page 7)

Two services are available, "Unit Health Check" and "Full Server Facilities"

The "Full Server Facilities" can be purchased with the system or at a later date. Registration to use the server facilities can be done at Asper's web site. <http://www.asper.co.uk/WSregister.htm>

DELIVERY

Standard delivery 4 to 6 weeks.

WARRANTY

All goods have a one year return to base warranty.

OUT OF WARRANTY REPAIR

Goods can be returned for repair which are out of warranty. An initial £55.00 + Vat charge will be made on all items returned, this fee will apply even if the goods are found to be uneconomical for repair.

CONDITIONS OF SALE

All goods and services are supplied in accordance with our company terms and conditions which are available on request or can be downloaded from our web site at www.asper.co.uk/Downloads.htm

AS300 Stand Alone System



- ▶ System for individual and remote equipment.
- ▶ Two Temperature inputs + One volt Free Input.
- ▶ Text Alarm Alerts with temperatures.
- ▶ Query Unit for real time temperatures from mobile phone.
- ▶ Web facility available for data and alarm information.
- ▶ Five Telephone numbers.
- ▶ No telephone Line required.
- ▶ Simple to Install.

Part Number	Description	AS300SA
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AS300SA GSM Alarm, Monitoring & Data Logging Unit to Web

**INPUTS - OUTPUTS - TEMPERATURE PROBES - SIM CARD- DATA WEB OPTIONS
HAVE TO BE PURCHASED IN ADDITION TO THE BASIC AS300SA**

INPUTS

AS300-IP1/T	INPUT 1	Temperature range -200°C to +100°C
AS300-IP2/T	INPUT 2	Temperature range -200°C to +100°C
AS300-IP3	INPUT 3 DIGITAL	Volt Free Contact. (Can be used for a door switch etc)

OUTPUT

AS300-RL	RELAY OUTPUT	Volt Free Contact
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TEMPERATURE PROBES

PT1000-B-C	TEMPERATURE PROBE CLASS B and I/P2 (1m)	Platinum Resistance Temperature Probe -200°C to +100°C (Cl ass B) for I/P1 and I/P2 (1m)
PT1000-A-C Heavy Duty	TEMPERATURE PROBE CLASS A HEAVY DUTY and I/P2 (1m) Wire Diameter approx 4mm	Platinum Resistance Temperature Probe -200°C to +100°C (Class A) for I/P1 and I/P2 (1m) Wire Diameter approx 4mm
5m Probe Ext	5 Metre Extension for Temperature Probe	

SIM CARD

The customer can purchase there own sim card, the AS300SA can be configured to accept PAYG or Contract Sim's. Asper can supply the AS300SA unit with a PAYG O2 sim card.

AS300SIM	Pay as you go O2 Sim Card with £10.00 Credit
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WEB FACILITY FOR DATA LOGGING & ALARM INFORMATION PLEASE SEE PAGE 7 FOR PRICING

OPTIONS

AS200TC	Temperature Alarm Simulator and Calibration Unit. 2 Point Temperature Simulator for Test Purposes approx (+50°C and -50°) 1 Point Calibration (0.0°C) error better than 0.03° C for AS300SA.
AS200TC Cal Certificate	Cal Certificate for AS200TC at 0°C
CO2 / Temp Probe	Combined Co2 (0 to 20%) and Temperature Probe, Input 1 and Input 2 option required (RS232 port used)
Humidity/ Temp Probe	Combined Humidity (0 to 100%) and Temperature Probe, Input 1 and Input 2 option required (RS232 port used)

AS300 System

Web Data Analysis & Alarm Log



Mobile Phone



AS300RX OR AS300COMM



AS200TX



Equipment



Local Computer Monitoring Software

WHICH RECEIVER WILL BE SUITABLE FOR MY APPLICATION

DIFFERENCES OF AS300 RECEIVERS

	AS300RX	AS300 Communicator
TELEPHONE NUMBERS		
Telephone Numbers Allocated Per AS200TX Transmitter	3 Telephone Numbers	NIL
Telephone Numbers Allocated Per AS300 Base Unit	3 Telephone Numbers	5 Tel Numbers
Total Number of telephone numbers which can be programmed into Unit	33	5
NUMBER OF TRANSMITTERS		
Number of Transmitters per AS300 Unit	10	100
Expandable	YES up to 90 transmitters	YES
WEB DATA		
Data & Alarm Log	YES	YES
LOCAL PC MONITORING		
Data	YES : Limited to ten transmitters per unit	YES : Recommended if local PC monitoring is required.
UPGRADE AS200RX SYSTEMS		
Upgrade existing AS200RX systems for text information and web access	NO	YES

AS300RX

Use in applications when the following is applicable :-

- ▶ Small amount of equipment to be monitored at any one site.
- ▶ Multiple sites and locations to be monitored by one system.
- ▶ Individual telephone numbers are required for each AS200TX transmitter.
- ▶ More detailed alarm text information sent with alarm message.

AS300 COMMUNICATOR

Use in applications when the following is applicable :-

- ▶ Large amount of equipment to be monitored at one location. All AS200TX transmitters in the system to be within range of the AS300 Communicator.
- ▶ Requirement of up to five telephone numbers to be called in sequence when any alarm from a AS200TX transmitter is activated.
- ▶ Less detailed alarm text information sent with alarm message.
- ▶ Updates AS200RX systems and COMGSM units for text information and web access.

AS300 SYSTEM - RECEIVERS

Part Number	Description
AS300RX	AS300RX RECEIVER 10 Channel Receiver—Expandable to 90 using Qty 9 AS300RX
AS300 COMM	AS300 COMMUNICATOR 100 Channel Receiver

SIM CARD

The customer can purchase their own sim card, the AS300 unit can be configured to accept PAYG or Contract Sim's. Asper can supply the AS300 unit with a PAYG O2 sim card.

AS300SIM	Pay as you go O2 Sim Card with £10.00 Credit
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WEB FACILITY FOR DATA LOGGING & ALARM INFORMATION

PLEASE SEE PAGE 7 FOR PRICING

OPTIONS FOR AS300 RECEIVER UNITS

AS300-OUPUT	DIGITAL OUTPUT FOR AS300 Units
SD1+	Auto-Dialler with Battery Backup (4 Telephone Numbers) NOTE :- THIS OPTION REQUIRES DIGITAL OUTPUT (AS300-OUTPUT) e.g. £289 + £65 = £354.00
AS300 PCSOFT-25	Local PC Monitoring Software for Displaying and Storing Values with encryption. Analysing Data Software with decryption, licensed for up to 5 users per site (Up to 25 transmitters Only) Including Software Cable Interface.
AS300 PCSOFT-50	Local PC Monitoring Software for Displaying and Storing Values with encryption. Analysing Data Software with decryption, licensed for up to 5 users per site (Up to 25 transmitters Only) Including Software Cable Interface.

Part Number	Description	AS300 SYSTEM - TRANSMITTERS
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AS200TX-200	-200°C to +100°C, Temperature Alarm and Data Transmitter, One Temperature Input (IP1), Mains Failure Alarm, Accuracy +/- 0.1°C across full range, resolution 0.1, Calibration facility, Holding Bracket and Power Supply.
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ADDITIONAL INPUTS - TEMPERATURE PROBES

INPUTS

IP2B	INPUT 2	Temperature range -200°C to +100°C
IP3B	INPUT 3 DIGITAL	Volt Free Contact. (Can be used for a door switch etc)

TEMPERATURE PROBES

PT1000-B	TEMPERATURE PROBE CLASS B Platinum Resistance Temperature Probe -200°C to +100°C (Class B) for I/P1 and I/P2 (1m)
PT1000-A Heavy Duty	TEMPERATURE PROBE CLASS A HEAVY DUTY Platinum Resistance Temperature Probe -200°C to +100°C (Class A) for I/P1 and I/P2 (1m) Wire Diameter approx 4mm

OPTIONS FOR AS300 TRANSMITTER UNIT

AS200TC	Temperature Alarm Simulator and Calibration Unit. 2 Point Temperature Simulator for Test Purposes approx (+50°C and -50°C) 1 Point Calibration (0.0°C) error better than 0.03°C for AS300SA.
AS200TC Cal Certificate	Cal Certificate for AS200TC at 0°C

ADDITIONAL OPTIONS FOR THE AS300SA & AS300 SYSTEMS

AS300 SYSTEM - TRANSCEIVER

AS200TR	Multi Channel Transceiver
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ANTENNA

ANTGSM1	Higher Gain GSM Antenna
ANTGSM 2	Magnetic based GSM Antenna with 2.5m of cable (Useful if reception varies across room)
ANTGSM 3	High Powered Directional GSM Antenna with 2.5 m of cable (For very poor reception areas)
ANTRF1	High Gain 433MHz wireless Antenna for AS200RX, AS300RX and AS300 Communicator approx 1m in height with magnetic base and 5m of cable.

TEMPERATURE PROBE EXTENSION FOR AS300SA PROBES

Probe Extension	Temperature Probe Extension 5 metres
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D.C POWER EXTENSIONS

PS EXT	D.C Power Supply Extension Lead
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AS200 System



NOTE
 WE WOULD RECOMENED THAT ALL NEW SYSTEMS PURCHASED USE THE AS300RX OR AS300 COMMUNICATOR.
 The AS200RX IS NOW A LEGACY PRODUCT

Part Number	Description
AS200 SYSTEM - RECEIVERS	
AS200RX	AS200RX RECEIVER with Administrator Key-Fob
AS300 COMM	AS300 COMMUNICATOR 100 Channel Receiver

OPTIONS FOR AS200 RECEIVER UNIT

SD1+ Auto-Dialler with Battery Backup (4 Telephone Numbers)

RX Buffer Data Buffer Store for Tx's (Approx 170 Days @ 1 Transmitter)

AS200KF1 Additional Administrator Key-Fob (KF1)

AS200 KF2 Acknowledgers Key-Fob (KF2)

AS200-SW-25 Monitoring Software for Displaying and Storing Values with encryption. Analysing Data Software with decryption, licensed for up to 5 users per site (Up to 25 transmitters Only)

AS200-SW-50 Monitoring Software for Displaying and Storing Values with encryption. Analysing Data Software with decryption, licensed for up to 5 users per site (Up to 50 transmitters Only)

AS200 SYSTEM - TRANSMITTERS

AS200TX-200 -200°C to +100°C, Temperature Alarm and Data Transmitter. One Temperature Input (IP1), Mains Failure Alarm, Accuracy +/- 0.1°C across full range, resolution 0.1, Calibration facility, Holding Bracket and Power Supply.

ADDITIONAL INPUTS - TEMPERATURE PROBES

INPUTS

IP2B INPUT 2 Temperature range -200°C to +100°C

IP3B INPUT 3 DIGITAL Volt Free Contact. (Can be used for a door switch etc)

TEMPERATURE PROBES

PT1000-B TEMPERATURE PROBE CLASS B
 Platinum Resistance Temperature Probe -200°C to +10 0°C (Class B) for I/P1 and I/P2 (1m)

PT1000-A Heavy Duty TEMPERATURE PROBE CLASS A HEAVY DUTY
 Platinum Resistance Temperature Probe -200°C to +10 0°C (Class A) for I/P1 and I/P2 (1m) Wire Diameter approx 4mm

OPTIONS FOR AS200 TRANSMITTER UNIT

AS200TC Temperature Alarm Simulator and Calibration Unit.
 2 Point Temperature Simulator for Test Purposes approx (+50°C and -50)
 1 Point Calibration (0.0°C) error better than 0.03° C for AS300SA.

AS200TC Cal Certificate Cal Certificate for AS200TC at 0°C

AS200 SYSTEM - TRANSCEIVER

AS200TR Multi Channel Transceiver

SERVER BASED FACILITIES

Two services are available “**Unit Health Check**” and “**Full Server Facilities**”.
Registration to use the sever facilities can be done at Asper’s web site.

<http://www.asper.co.uk/WSregister.htm>

The server based facilities can be purchased with the system or at a later date.

Service Provided by UNIT HEALTH CHECK SERVICE

A PDF file will be sent to the users email address with the following information :-

- ▶ **INFORMATION ABOUT UNIT:** Customers Name, Address, Email Address, Contact Telephone Number, Type of Unit, Ser No of Unit, Telephone Number of Sim and Date.
- ▶ **SIM CREDIT:** Credit on the Sim, Network used by Sim, Network signal strength. A warning header will be issued under this heading if the credit is below £4.00 or if the network signal strength is low.
- ▶ **NUMBER OF TEXT CALLS MADE :** Quantity of calls made in last 7 days.
- ▶ **TEMPERATURE DATA :** Highest temperature of the day for each unit, for each day dated.

Service Provided by FULL SERVER FACILITIES SERVICE

▶ **DATA :** Data stored at server.

▶ **DATA ANYALISIS :** Data can be downloaded at any time and viewed on Analysis Software. Analysis software allowing view of data in numerical and graphical form. Alarm log detailing all text calls, simple printing of data.

ADDITIONAL SERVICES

The following will be sent each week to the users email address :

- ▶ Last 7 day’s collected data from server so they can view later with analysis software. Sent as a Zip file.
A PDF with the following information :-
- ▶ **INFORMATION ABOUT UNIT:** Customers Name, Address, Email Address, Contact Telephone Number, Type of Unit, Ser No of Unit, Telephone Number of Sim and Date.
- ▶ **SIM CREDIT:** Credit on the Sim, Network used by Sim, Network signal strength. A warning header will be issued under this heading if the credit is below £4.00 or if the network signal strength is low.
- ▶ **TEXT CALLS MADE :** Log of all text calls made by unit.
- ▶ **TEMPERATURE DATA :** Highest, Lowest and Average Temperature of the day for each unit, for each day dated.

PRICES

All Server based services are charged annually.

Part Number	Description	AS300SA
AS300SA WEB HC	AS300SA Unit Health Check, Monthly Charge	
AS300SA WEB FULL	AS300SA Full Server Facilities, Monthly Charge	
AS300RX		
AS300RX WEB HC	AS300RX Unit Health Check, Monthly Charge	
AS300RX WEB FULL	AS300RX Full Server Facilities, Monthly Charge	
AS300 COMMUNICATOR		
AS300COMM WEB HC	AS300 Communicator Unit Health Check, Monthly Charge	
AS300COMM-1 WEB	AS300 Communicator Full Server Facilities, Monthly Charge –Limited to 20 transmitters on system	
AS300COMM-2 WEB	AS300 Communicator Full Server Facilities, Monthly Charge - Unlimited number of transmitters on system	