

Description

The purpose of the AW-FP300 Fire Alarm Control Panel (FACP) is to monitor input signals, give indications and possibly activate outputs as programmed. It is designed to comply with EN 54-2 with qualities of simple installation, operation and easy maintenance.

The AW-FP300 panel is an addressable fire detection panel with 1 loop of 324 addressable points and expansion capabilities. It is compatible with other peripherals made by ASENWARE with its own protocol.



Technical Specification

Power supply	
Mains supply	230VAC (-15%, +10%). 47 ~ 63Hz. Max current 0.8A
Mains fuse	T3.15AL250V
Operating voltage	18.5 ~ 30VDC
Recommended mains cable	Screened or standard/black mains cable, cable size 0.75mm ²
Power rating	I _{max.a} =1.2A; I _{max.b} =2.6A; I _{min} =0.65A
Max. charging current	1.2A
Max. battery supply current	4A (when the Mains is disconnected)
Battery capacity, type and recommended model	Max. capacity 2×12V/17Ah; Min. capacity 2×12V/12Ah VRLA. PS-12170 for 17Ah (Power-sonic), PS12120 for 12Ah (Power-sonic)
Max. internal resistance of battery	1.5Ω
Battery fuse	F8AL250V
Recommended battery cable	14AWG
Quiescent current (full loaded)	< 0.4A

Output		
S.C. Out (+, -)	Output voltage	18.5 ~ 30VDC
	Max. output current	0.5A
	Fuse rating	F1AL250V
	End of line resistor	4K7
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²
	Transmission distance	≤1500m
	Max. number of sounders @50mA	20
F.P.E. Out (+, -) F.A. Out (+, -)	Output voltage	18.5 ~ 30VDC
	Max. output current	0.5A
	Fuse rating	F1AL250V
	End of line resistor	4K7
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²
	Transmission distance	≤1500m
Fault Out (NC, COM, NO)	Contact capacity	30VDC@2A, 125VAC@0.5A
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²
24VK (+, -)	Output voltage	18.5 ~ 30VDC
	Max. output current	0.6A
	Fuse rating	F1AL250V
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²

Input		
Class change (+, -)	Input mode	Passive
	Cable resistance	≤500Ω
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2mm ²

Loop		
Loop Out (+, -) Loop In (+, -)	Output voltage	16.5 ~ 30VDC, pulse
	Output current	0 ~ 0.3A
	Loop type	Class A
	Recommended type of cable	Screened or unscreened twisted-pair, 1.5mm ²
	Transmission distance	≤1000m
	Cable diameter	1mm ² ~ 2mm ²

Network communication		
RS-485	Max. number of FIPs	30
	Transmission rate	9600 bps
	Recommended type of cable	Screened or unshielded twisted-pair, 1mm ²
	Transmission distance	≤1000m
	Cable diameter	1mm ² ~ 5mm ²
CAN	Max. number of panels	20
	Transmission rate	Optional: 10K, 20K, 50K and 100K bps
	Recommended type of cable	Screened or unshielded twisted-pair, 1mm ²
	Transmission distance	≤1000m
	Cable diameter	1mm ² ~ 5mm ²

Physical dimensions	
Approx. Dimensions of the panel (W×H×D)	430×560×170mm
Approx. weight (without battery)	14kg

Operating conditions
Temperature range: 0°C~ 45°C; Max relative humidity: 95% (40°C ± 2°C, no condensation)