



AFD258

Flame Controller



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AFD258 Flame Controller

Overview

- AFD258 controller is an intelligent flame controller with the following functional features:
- Advanced intelligent control chip, intuitive digital tube display, reliable industrial-grade components, strong anti-interference.
- The external ignition transformer can be used in all kinds of burner control systems with intermittent or continuous operation.
- It is suitable for single electrode, double electrode and ultraviolet probe flame detection.
- The flame current signal as low as 1uA can be detected, and the flame detection current threshold can be set.
- The flame stabilization time can be set.
- The number of key fires can be set.
- The running status of the controller, the fault code and the flame signal strength can be displayed.
- AFD258 is divided into two versions: one is the basic type, and the other is the bus type (Modbus RTU protocol), which can be used as a slave to communicate with the host computer.

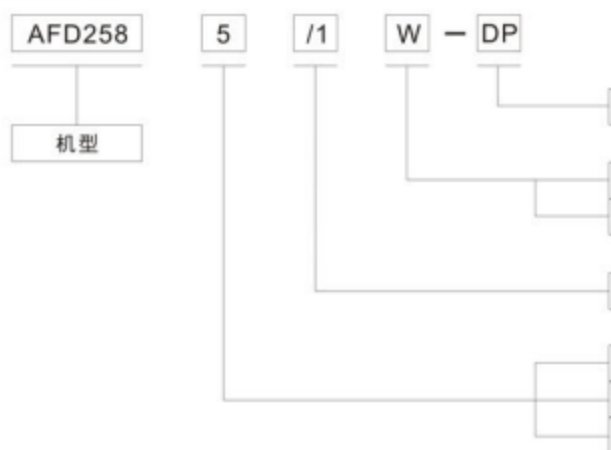


Technical Parameters

- Supply voltage: AC220V±10% 50Hz
- Maximum power consumption: 8W
- Terminal load: 2A
- Flame detection current sensitivity: adjustable between 1-20uA, factory default 2uA
- Ignition time: can be set, factory default 5S
- Ignition times: can be set, factory default 1 time
- Operating temperature: -20~+60°C
- Operating ambient humidity: <85%
- Protection class: IP40
- Flame detection cable length: electrode detection is 75m, The UV probe is detected at 100m

Type selection table

■Type selection table



DP represents Bus Type, which defaults to Basic.

W: Supply voltage AC220V±10% 50Hz

N: Supply voltage AC110V±10% 50Hz

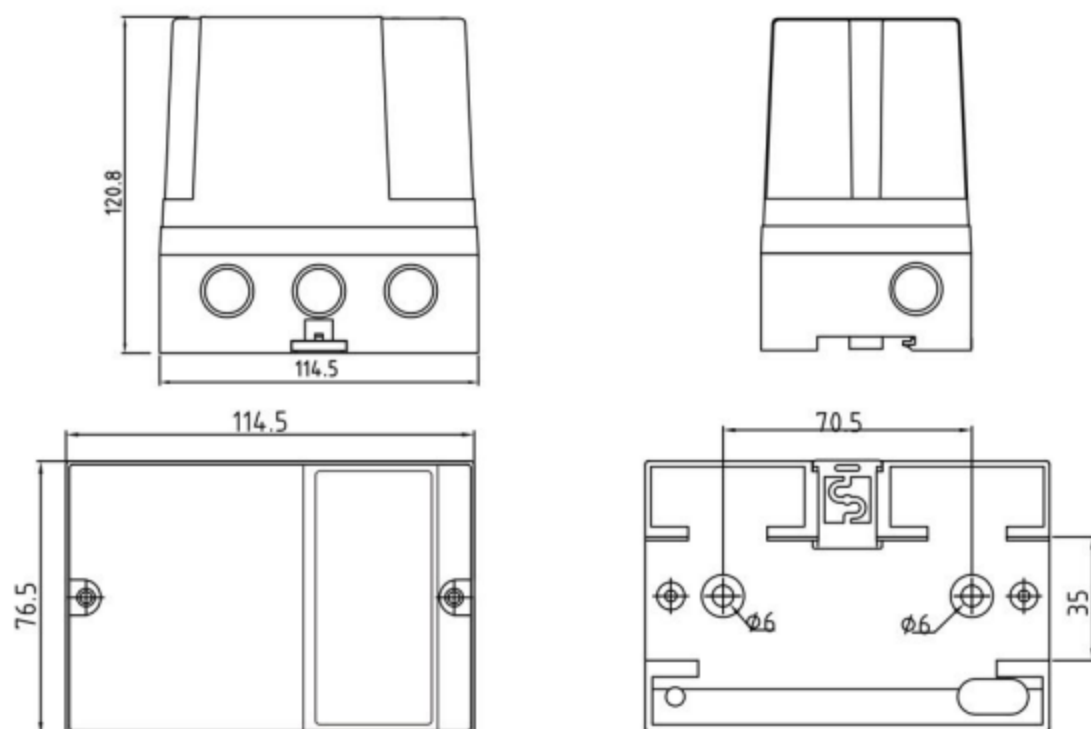
/1: Automatic ignition after flame-off-times

3: Ignition time is 3 seconds

5: Ignition time is 5 seconds

10: Ignition time is 10 seconds

Installation dimension drawing



Troubleshooting

Fault	Causes	Solutions
No ignition after starting, immediate alarm	The electrode is leaked by moisture	Dry the porcelain tube, or replace the electrode.
	The ignition cable is too long	Shorten the ignition cable to 1M.
	The distance between the ignition electrode and the burner is too large	Adjust the distance between the electrode and the burner head to a maximum of 3mm.
	The ignition cable is in poor contact with the electrode contact	Re-determine the connection of the cable and electrode connector.
There is a spark, but there is no fire	The solenoid valve does not open	Check that the solenoid is wired correctly or loosely.
After the fire, the alarm was called as soon as the fire was extinguished	Detect that the electrode is not exposed to flame	Adjust the air/gas ratio.
	Detect electrode carbonization or unreliable wiring	Check the condition of the electrodes and wiring.
No ignition after start-up, alarm after a few seconds	The fuse in the green fuse is blown out	Replace the fuse