Proflame

SIT

Proflame 2 IFC
Integrated Fireplace Control

Proflame IFC Integrated Fireplace Controler

The Proflame 2 is a modular remote control system that directs the functions of a hearth appliance. It was designed in Basic, Standard or Complete configurations for ATMO or FAN assisted appliances and now available in Basic ATMO, Complete ATMO or Complete FAN/ATMO versions.

The BASIC System consists of four main elements:

1 Proflame 2 Integrated Fireplace Control (IFC) Basic model
2 Proflame 880, or 886 families of gas valves
3 Pilot assembly
4 Wiring harness to connect the IFC to the gas valve, pilot burner and control switches.

The STANDARD System consists of seven main elements:

1 Proflame 2 Integrated Fireplace Control (IFC) Standard model
2 Proflame Gas Valve 885 family (also the 880, 886 families are compatible)
3 Wiring harness to connect the IFC to the gas valve stepper motor, control switches and to the Split Flow Control
4 Proflame 2 Transmitter and receiver (optionals)
5 Pilot assembly
6 Split Flow valve (optional)
7 Local user interface.

The COMPLETE System consists of seven elements (ATMO confi guration), eight elements (FAN configuration):

1 Proflame 2 Integrated Fireplace Control (IFC) Complete model
2 Proflame Gas Valve 885 family (also the 880, 886 families are compatible)
3 Wiring harness to connect the IFC to the control switches, and -depending on the FAN/ATMO confi guration- to the APS
4 Proflame 2 Transmitter
5 Pilot assembly
6 Split Flow valve (optional)
7 Comfort fan, dimmable lights, auxiliary device (optional)
8 In Fan configuration, the combustion Fan with Air Pressure Switch (APS) safety device.

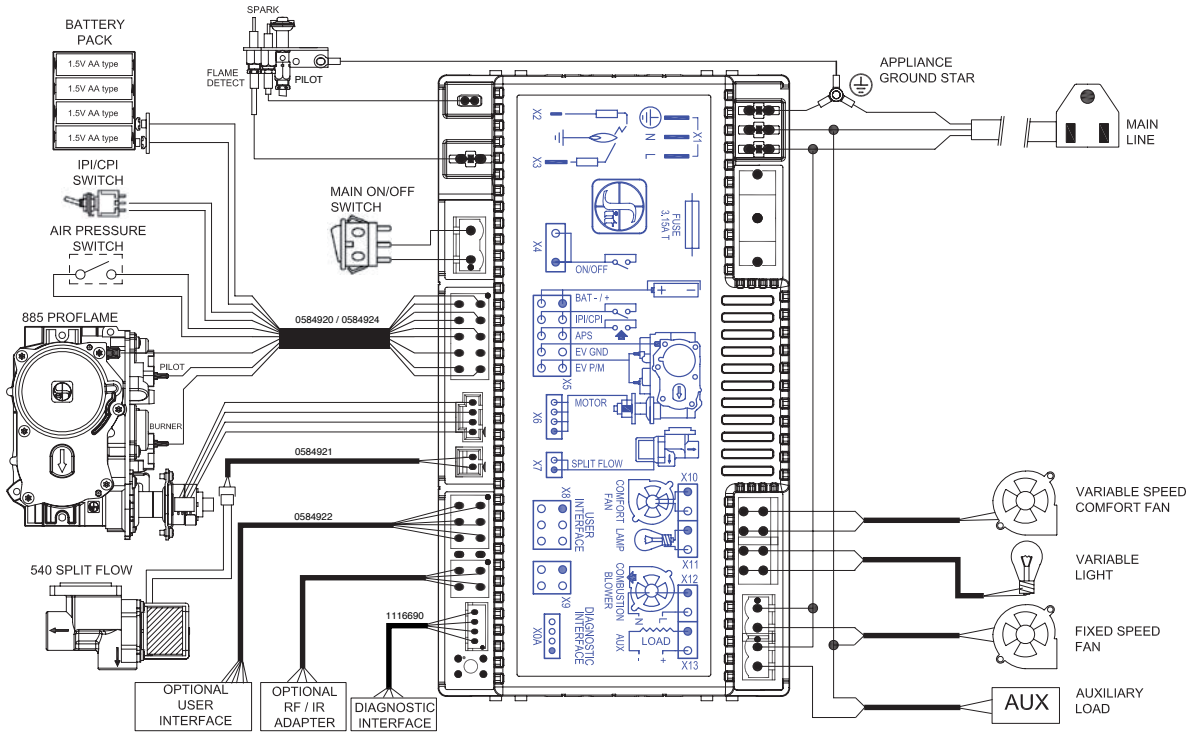
For operation with a less sensitive response time to movement of the flame with relationship to the sensing electrode, the IFC unit can be ordered with extended “FFRT” option (CSA certified only). With this option a “Flame Failure Response Time” (5s) with extended “Recycle Time” (30s) are adopted. In case of flame failure detection, the system will not react immediately, but will wait for FFRT expiration before entering lockout (in ATMO configurations) or re-igniting (in FAN configurations).

Integrated fireplace control (IFC)

The Proflame 2 Integrated Fireplace Control (IFC) board is a device that allows the automatic ignition and pilot flame supervision, to command the functions of a hearth appliance, see figure.
It's confi gured to control the ON/OFF main burner operation, giving the choice of both IPI (intermittent pilot ignition), and CPI (continuous pilot ignition) modes.
The Proflame 2 IFC board controls and connects directly to the pilot assembly and an automatic valve of the Proflame 880, 886 and 885 families using low electric power.
The IFC Board can be powered by an AC and battery pack for back up (ATMO Systems only).

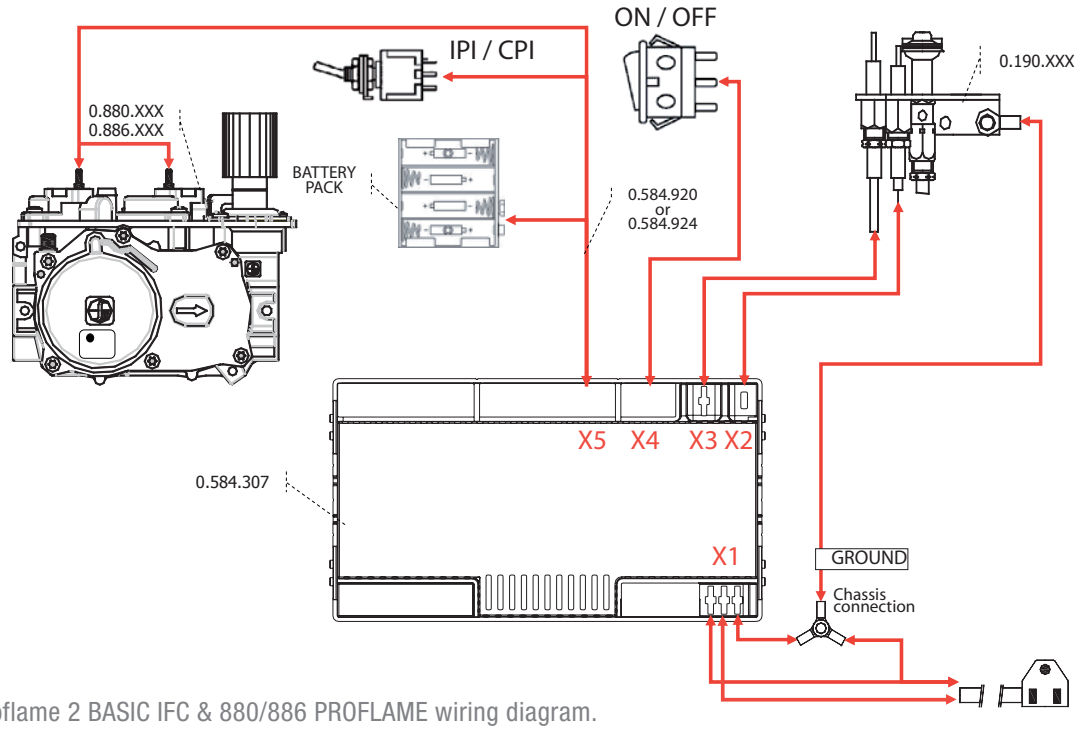
The Proflame 2 offers the added ability to control the comfort fan speed from OFF through six (6) speeds, a remotely actuated auxiliary outlet and a dimmable light outlet. The external batteries can provide DC power to the IFC allowing the batteries to be used only when line power is interrupted or lost, and if the appliance does not use a combustion fan.

Proflame 2 IFC Board



Connecting to the 880/886 Gas Valve and IFC control board in BASIC configuration

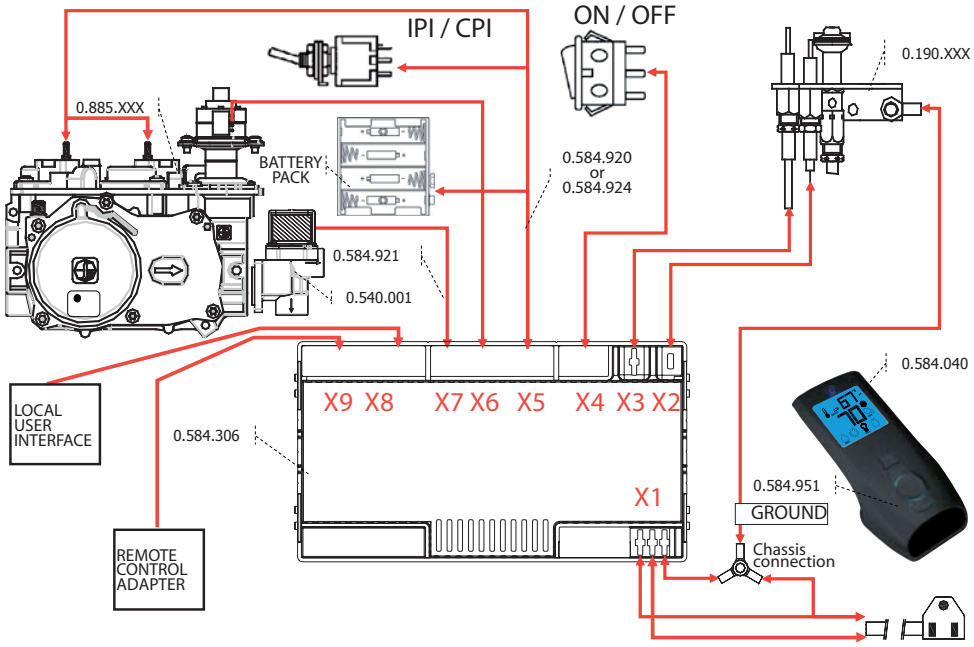
The electrical connections must be in accordance.



Proflame 2 BASIC IFC & 880/886 PROFLAME wiring diagram.

Connecting to the 885 Gas Valve and IFC control board in STANDARD configuration (MFSLA)

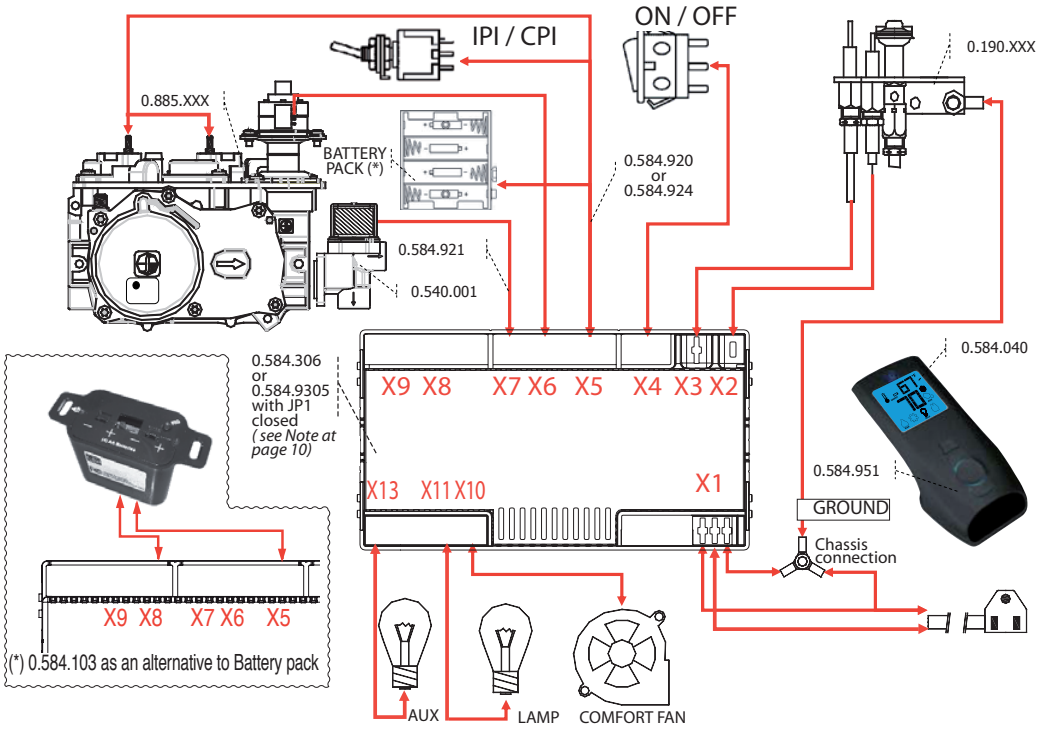
The electrical connections must be in accordance.



Proflame 2 STANDARD IFC & 885 PROFLAME wiring diagram.

Connecting to the 885 Gas Valve and IFC control board in COMPLETE configuration (ATMO)

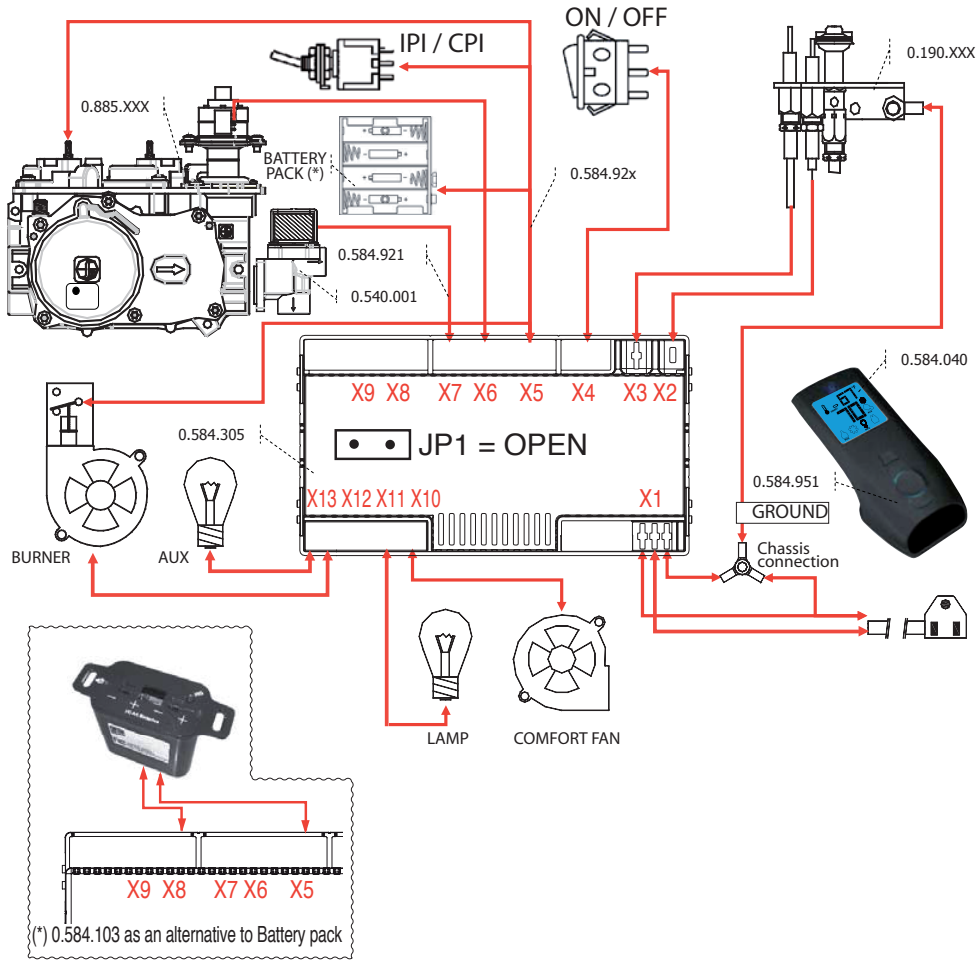
The electrical connections must be in accordance.



Proflame 2 COMPLETE ATMO & 885 PROFLAME wiring diagram.

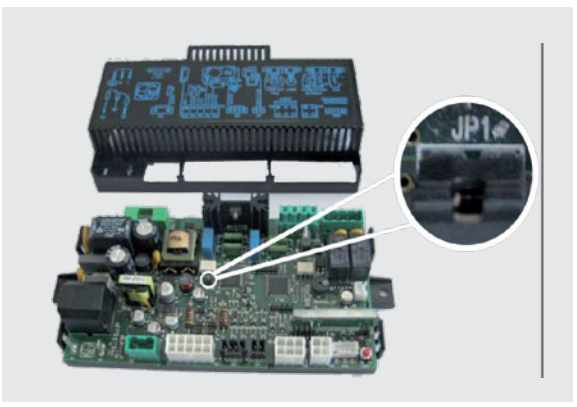
Connecting to the 885 Gas Valve and IFC control board in COMPLETE configuration (FAN)

The electrical connections must be in accordance.



Proflame 2 COMPLETE FAN & 885 PROFLAME wiring diagram.

Note: the models of IFC boards that can operate in either ATMO or in FAN mode, are confi gured in the factory in ATMO mode (Jumper JP1 closed). To enable the FAN mode, it is necessary to open the IFC removing the cover and than remove the jumper JP1 (JP1 open), see Picture and Table below.



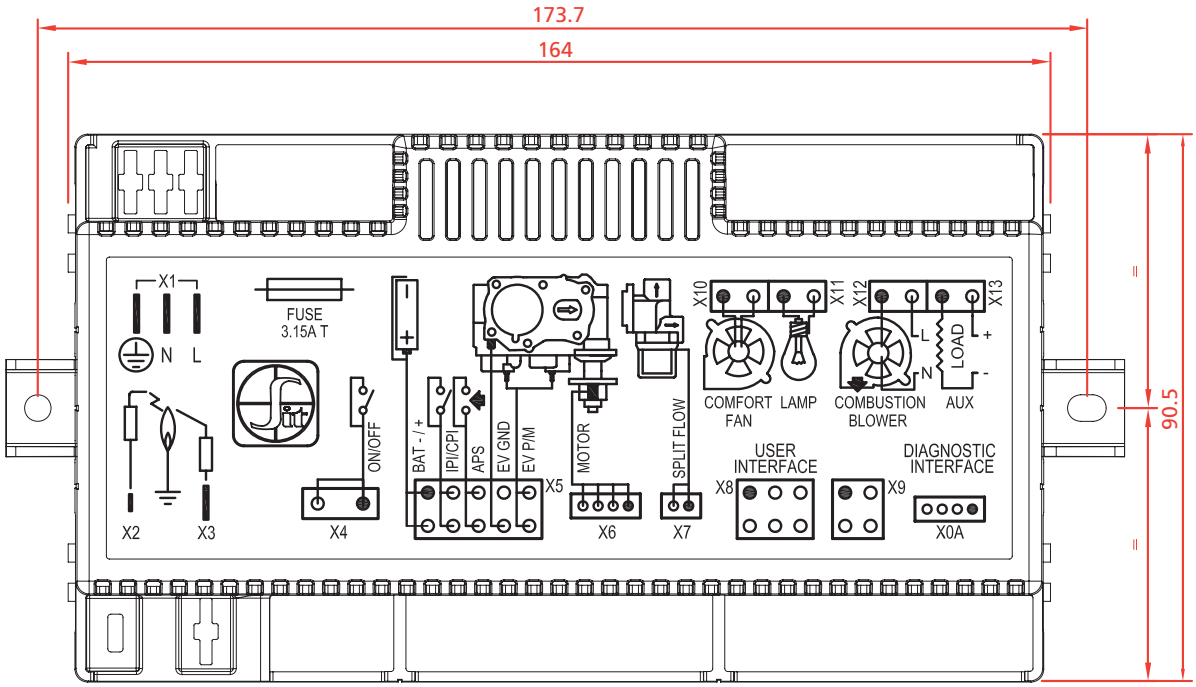
JP1 STATUS	IFC board enabled mode
OPEN	FAN
CLOSED	ATMO (DEFAULT)

Integrated fireplace control (IFC) module

- AC supply voltage and frequency _____ 120 V ~ 60 Hz - 2.5 A max
- BB supply voltage _____ 6 Vdc - 200 mA max (four 1.5V AA batteries)
- Ambient operating temperature _____ -10 to 80 °C (14 to 176 °F)
- Radio frequency _____ 315 MHz
- Aux switched output _____ 120 V / 60 Hz / 5 A
- Fan speed output _____ 120 V / 60 Hz / 2
- Light dimming output _____ 120 V / 60 Hz / 0.5 A
- Spark voltage _____ >15 kV
- Spark energy _____ >0,7 mJ
- Spark frequency _____ 1Hz
- Tested gas types _____ the system has been tested both for NG, and LPG gas types/mixtures
- Pilot ignition source _____ Intermittent/Continuous

Dimensional Drawings

IFC Control Board



Height: 42mm

Subject to change without notice

SIT

Viale dell'Industria, 31-33 - 35129 Padova - ITALY
Tel. +39 049 8293111
www.sitgroup.it - marketing@sitgroup.it