

## PROTIG 231 DC FV

Ref. 079311 (with accessories)  
Ref. 079304 (without accessories)

The PROTIG 231 DC FV is a very compact and portable pulse TIG DC welding power source. PFC technology ensures that it can operate from 195 V to 265 V, and still produces a very stable arc, even if a 100m extension lead is being used. When welding with an electrode, the MMA Pulse mode is particularly useful for ascending vertical welds.

## 2 WELDING PROCESSES

TIG DC

**DC Standard:** smooth current welding on most ferrous materials.**DC Pulse, up to 2 kHz:** controls the temperature of the weld pool, which limits distortion and means that workpieces as thin as 0.3 mm can be assembled.

MMA

**Standard MMA:** rutile and basic electrodes (up to Ø 5 mm).**MMA Pulse, up to 500 Hz:** facilitates welding in a vertical upright position (pipes/pipelines, etc.)

## OPTIMISED TIG SETTINGS

## ■ 2 tacking modes :

- **Spot** : adjustable tacking time from 0.1 to 60 seconds on workpieces prior to welding.
- **Pulse** : adjustable from 0.01 to 60 seconds for thin plates prior to welding.

## ■ 2 types of ignition: contactless HF or contact LIFT for electrosensitive environments.

## ■ 3 trigger controls: 2T, 4T and 4T LOG.

Supplied with	TIG26B - 4 m	2 m - 25 mm <sup>2</sup>	2 m - 25 mm <sup>2</sup>
079311	✓	✓	✓
079304	without accessories		

## MAXIMUM PERFORMANCE

## ■ Advanced secondary control for maximum arc stability and consistent current in all positions.

## ■ Stores up to 50 programs per process for recurring tasks.

## ■ Advanced menu for enhanced welding control.

## ■ Current and voltage display during and after welding (DMOS/QMOS)

## ■ Automatic torch detection: compatible with lamella, double button, potentiometer and Up &amp; Down torches.

## ■ Remote controls (foot pedal or manual options) can be connected without using tools.

## ■ VRD can be activated via an internal switch to reduce open-circuit output voltage to &lt; 35 V.

## ■ Intelligent fan management to reduce power consumption, dust ingress and noise.



Intuitive interface with illuminated display, easy to read from up to 10 metres away.

## IDEAL ON SITE

## ■ Accommodates extension leads up to 100 m long.

## ■ Reinforced body and anti-shock feet.

## ■ Space-saving and portable for on-site use.

## ■ Protected against overvoltage up to 400 V (PROTEC 400).

## ACCESSORIES (optional)

Modules for welding torch TIG26 :



Double button

Button +  
Potentiometer

Up &amp; Down

084216

084230

084223

Set of consumables for  
TIG26 torch  
044678Trolley 4m<sup>3</sup> XL  
080034

Remote control:

RC-HA1 - 8 m  
045675RC-FA1 - 4 m  
045682

I <sub>A</sub>	I <sub>A</sub>	I <sub>2</sub> TIG	I <sub>2</sub> MMA	INTEGRATED TECHNOLOGY		TIG			MMA			U <sub>0</sub>	U <sub>R</sub>	IP	cm	kg	Protected & compatible power generator (+/-15%)	
				TIG DC PULSE	MMA PULSE	EN 60974-1 (40°C)			EN 60974-1 (40°C)									
50/60 Hz	A	A	A	IA (60%)	X% (12 max)	100%	IA (60%)	X% (12 max)	100%	V	V	mm <sup>2</sup>	cm	kg	Protected & compatible power generator (+/-15%)			
110 V - 1~	16	10 → 160	10 → 120	0.1 → 2 kHz	0.4 → 500 Hz	110 A	20 %	95 A	75 A	15 %	60 A	65	(VRD)	35/50	10	IP 21	2 m	8.5 kVA
230 V - 1~		10 → 230	10 → 200			160 A	23 %	140 A	135 A	25 %	120 A	80						