



GYS PROTIG 231 DC FV - Single Phase TIG WELDER

Reference: 079311

GYS PROTIG 231 DC FV - Single-phase TIG WELDER

The **GYS PROTIG 231 DC FV** is a single-phase TIG welder in **pulsed direct current**, compact, robust and high-performance, designed for professional use on construction sites and in the workshop. Thanks to the **PFC (Power Factor Correction)** technology, it works with a variable supply voltage from **85 V to 265 V**, guaranteeing a stable arc even with extensions of up to **100 metres**.

It supports two welding processes: **TIG DC** (standard and pulsed up to 2 kHz) for precise welding on ferrous materials, included thin sheets of **0.3 mm**, and **MMA** (standard and pulsed up to 500 Hz), ideal for welding in a vertical position such as on pipes and conductors.

The interface is intuitive, with **bright display visible up to 10 meters**, and allows the storage of **up to 50 programs**. The machine includes advanced features such as:

Spot and Pulsed modes for spot welding,
TIG HF or LIFT striking,
2T, 4T and 4T LOG management,
compatibility with lamella torches, Up&Down and potentiometer,
activatable VRD and intelligent ventilation.

the frame is reinforced with **shock-absorbing pads**, the internal protection supports overvoltages up to **400 V (PROTEC 400)**, making it perfect for heavy-duty use in industrial environments and on construction sites.

Technical Features:

Technology: Pulsed DC TIG / Pulsed MMA

Supply voltage: 110 V – 230 V, single phase

TIG current range: 10 – 230 A

MMA current range: 10 – 200 A

Pulsed TIG frequency: 0.1 – 2000 Hz

Pulsed MMA frequency: 0.4 – 500 Hz

Maximum absorbed power: 8.5 kVA

Duty cycle (at 40°C according to EN 60974-1):

TIG 230 V: 160 A @ 23% / 140 A @ 60% / 120 A @ 100%

MMA 230 V: 135 A @ 25% / 120 A @ 60% / 80 A @ 100%

TIG 110 V: 110 A @ 20% / 95 A @ 60% / 75 A @ 100%

MMA 110 V: 60 A @ 15% / 65 A @ 100%

Connectors: Ø 35/50 mm²

Protection index: IP21

Dimensions: 41.5 x 20 x 32.5 cm

Weight: 10 kg

Length of cables included (if supplied with accessories): 2 m – 25 mm²

Ventilation: intelligent, controlled

Compatibility with extension cables: up to 100 meters

Surge protection: up to 400 V (PROTEC 400)

VRD: switchable, open circuit voltage < 35 V

Program memory: up to 50 per process

TIG ignition type: HF (contactless) or LIFT (for electrosensitive environments)

Compatible remote controls: RC-HA1 (8 m), RC-FA1 (4 m), pedal

Torch compatibility: standard, bladed, double button, potentiometer, Up&Down

Are you looking for a portable welding machine with different features? [HERE](#) you can find the entire range GYS or other brands specialized

Images and technical data are not binding and may be subject to revisions by the supplier.

Technical Sheet

Phase	Single phase
Frequency (Hz)	50 / 60
Voltage (V)	110 / 230
Protection degree	IP21
Product dimensions (mm)	415 x 200 x 325

Current range (A)	TIG: 10 – 230 A / MMA: 10 – 200 A
Type of welding	MMA / MIG
Weight (Kg)	10
Duty Cycle 40°	-TIG 230 V: 160 A @ 23% / 140 A @ 60% / 120 A @ 100% / -MMA 230 V: 135 A @ 25% / 120 A @ 60% / 80 A @ 100% / -TIG 110 V: 110 A @ 20% / 95 A @ 60% / 75 A @ 100% / -MMA 110 V: 60 A @ 15% / 65 A @ 100% /
Ventilation	Intelligenza, controllata
Technology	TG DC pulsed / mma pulsed
Maximum absorbed power (KVA)	8.5
Connectors	35/50 mm ²
protezione da sovratensione	max 400v (PROTEC 400)
Torch Compatibility	standard, bladed, double button, potentiometer, Up&Down