



GYS PROTIG 231 DC FV - Single Phase TIG WELDER

Product price:

897.00 € tax excluded

Product description:

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.

Product features:

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 mm²

protezione da sovratensione: max 400v (PROTEC 400)

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