



ULTRASONIC FLOWMETER APE 1090 – APE 5190

OUR PRODUCTS

MEASURE

Flow
Level
Pressure
Temperature
Density
Displacement
Rotation
Energy
Voltage
Current
and others...

ANALYZERS

Measure and Control

PH

Redox
Conductivity
Chlorine
Turbidity
Opacity
Oxygen
and others...

AUTOMATIC

VALVES

SLUICE GATE
GATE VALVES
Control and
on-off Type

VALVE

CONTROLLER
Static (Triac)
with Auto/Man

AUTOMATIONS

PLC-PCS

Data-logger
Controller
Control
panel

SOFTWARE

ISI-S.C.A.D.A

CUSTOMIZED ENGINEERING

Instrumentation
control



APE1090 / APE5190
FIELD VERSION



APE1090 / APE5190/V
PORTABLE VERSION

TECHNICAL DATA

CONVERTER..... : MODEL APE5190 – APE5190/V

Mounting : field / portable
Measurement range..... : velocity 0,1÷12 m/s bi-directional
Full scale..... : programmable by keyboard
Keyboard : 16 anti-dust keys
Visualization..... : alphanumeric, on back-light LCD (2 rows x 20 characters)
Measurement inputs..... : from ultrasonic probes AP1090
Analog output : galvanically separated 4 ÷ 20 mA (max. load 1000 ohm)
Digital output..... : open-collector (max 24 Vdc – 20 mA)
- totalization - frequency output (0 – 1000 Hz)
Serial output : RS485 (MODBUS RTU Optional)
Totalizers visualization..... : in programmable technical units (direct, reverse and net)
Flow visualization..... : in programmable technical units
Accuracy : V=0,1-0,5 m/s E= ±2,0-1,5% f.s. - V=0,6-12 m/s E= ±1,0% v.l.
Mechanical protection..... : IP65
Ambient temperature : -40 ÷ 55 °C
Humidity : 4 ÷ 95 % non-condensing
Power supply : standard 90 - 240 Vac ± 10 % (6W) (other on request)
Autonomy : 18 ore (portable version)
Dimensions : H261 x W193 x D80 mm / H150 x W358 x D250 mm (portable version)
Weight : 4 kg /7 kg (portable version)

ULTRASONIC PROBES..... : MODEL APE1090

Applications..... : on clean liquids (max. 5% TSS)
Mounting : outward of piping (clamp-on) / insertion / flanged
Piping diameters : DN 15 ÷ 50 / 50 ÷ 500 / 400 ÷ 1000 / 1000 ÷ 4500 mm (with different probes)
DN 50 ÷ 1000
Material..... : PTFE
Liquid temperature..... : -40 ÷ 120 °C (250 °C on request)
Cables length : field: 6 mt. (std.) / 15 / 30 mts. (other on request)
portable: 8 mt. (std.) (other on request)
Connections : without-coming cable connected by manufacturer
Output : toward the converter AP5190
Power supply : from converter

Quality Parameters

MTBF 100.000 hours
BURN-IN 120 hours

Bull.	456
Last update	Gennaio 2018
Italy version	
English version	X