

RECORDERS SERIES 8000



TERMICS s.r.l.
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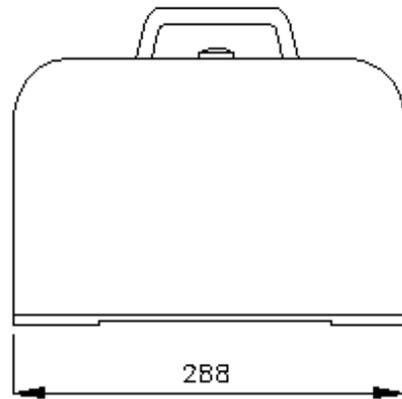
Email: info@fimigas.com
Website: www.fimigas.com

1. USE

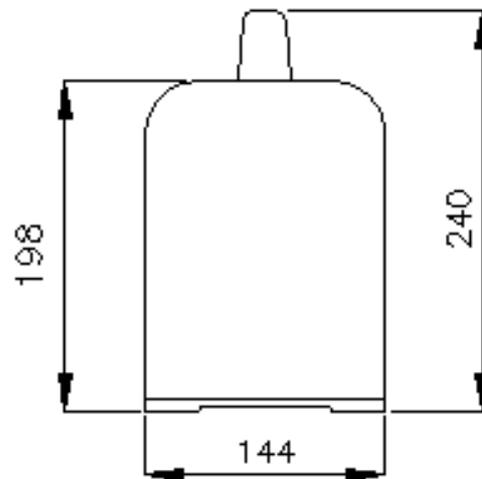
Recorders Series 8000 find their use in the construction and maintenance of methane pipelines, water supply system, etc. for hydraulic tests, recording over time the flow of pressure and/or temperature in the fluid.

2. COMMON CARACHTERISTICS

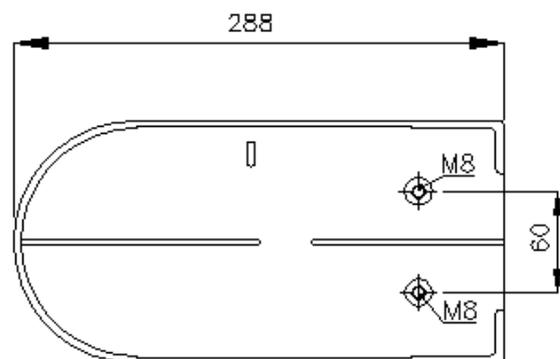
- Die-cast aluminum base with anti-scratch paint
- Transparent thermo-molded polycarbonate covers with handle; screw nut at the base inserted in the cover.
- Preparation of the base for fixing by means of a bracket.
- Mechanical clockwork movements with winding key inside the drum (to be rotated counterclockwise).
- Double speed recording clock: 24h and 48h or, alternatively, 29h 20 'and 176h.
- Non-refillable cartridge nibs with an autonomy of about 400 m of writing; the ink color depends on the scale range and is indicated on the diagram.
- Sheet diagrams with a useful height of 100 mm, wound on a drum with a diameter of 93 x 130 mm.
- Limit operating conditions: -25 ° C +60 ° C.
- Dimensions: 144 x 288 x 198
(240 mm with handle)



①



②



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3. MANOGRAPHS Mod. 8140 and 8160

Measuring element:

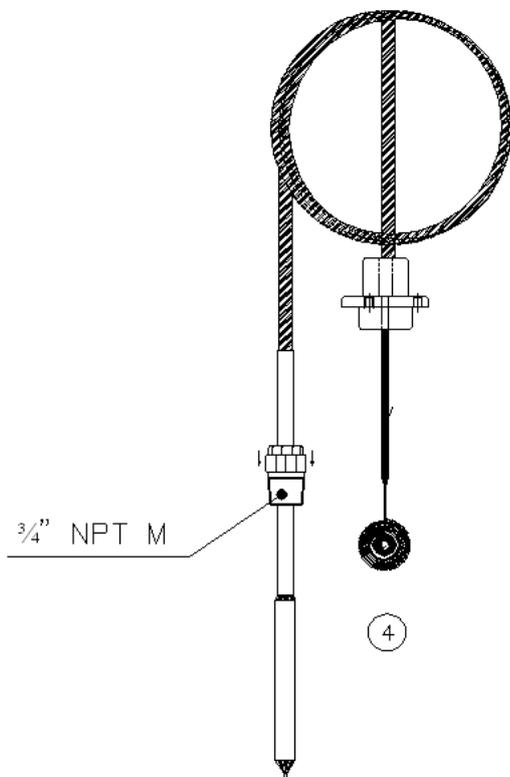
- Bellows in bronze or AISI 316 stainless steel for low pressure (mod. 8160)
- Bourdon spring in CuBe2 alloy for medium and high pressure (form 8140)
- Connection for pressure connection 1/4" NPT F

Scale range:

- 0÷40/60/100/160/250/400/600 mbar
- 0÷1/1,6/2,5/
4/6/10/16/25/40/60/100/160/200 bar

Precision:

- ± 2% of the F.S. for low pressure
- ± 1% of the F.S. for medium and high pressure



4. THERMOGRAPHS Mod. 8107/8108

Measuring element:

- expansion of inert gas (nitrogen), capillary with sheath in stainless steel AISI 316 6 meters long (mod. 8107) or 10 meters (mod. 8108)
- only on request, the bulb is supplied with a 3/4" NPT M fitting for insertion in the thermometric pocket, which is supplied

Scale range:

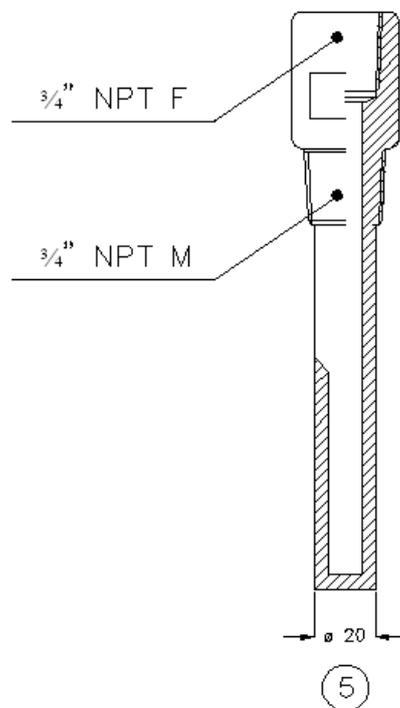
- -10°C +40°C / -20°C + 60°C

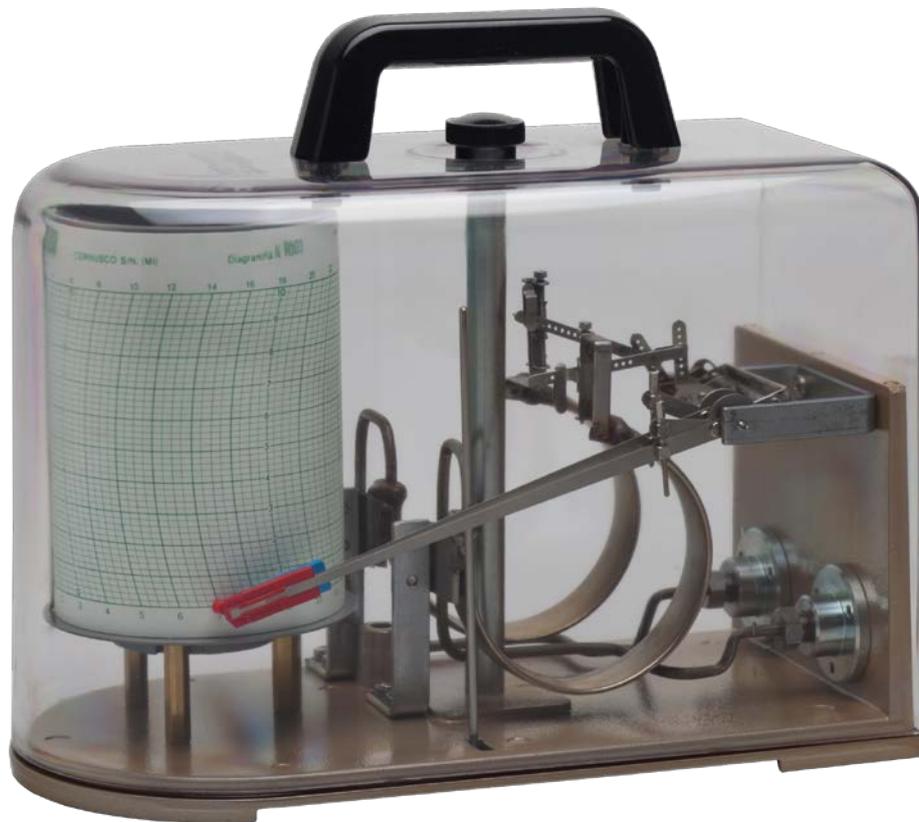
Accuracy : ± 1% of the scale width

5. HAND THERMOGRAPHS Mod. 8147

Recording of pressure and temperature in a single device.

For technical specifications please control the over mentioned specifics.





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6. MANUFACTURING VARIANTS

The indicated variations can be made if requested for specific usages, as per example recorders for double pressure or with monthly or 1-hour clock-work function.

If requested, the recorder can be supplied with the IP65 enclosure.

7. USER INSTRUCTIONS

Every recorder of the series 8000 has a drum chart driver with a cylindrical body (5), that contains a clock-work mechanism and a weekly charge, fixed on a base of the recorder through spacers (6), and a drum (3) inserted on the shaft of the chart driver.

The charge is applied rotating the key (2) counterclockwise.

To position the drum, to begin recording at the hour, rotate the drum counterclockwise.

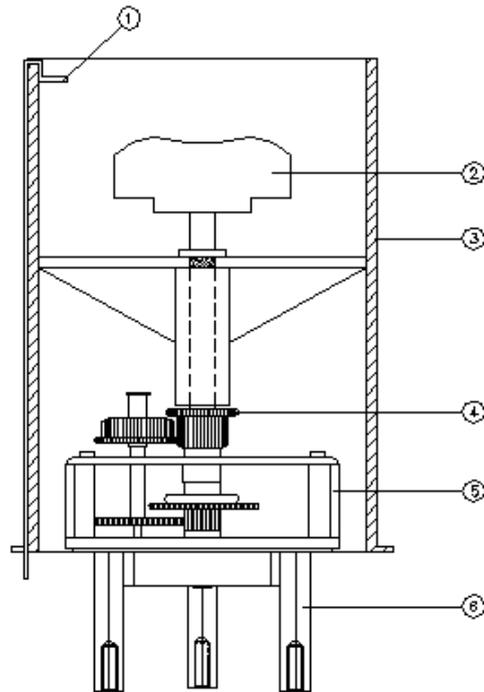
The drum chart, is set-up for two speeds: 1 turn 24 hours or 1 turn 48 hours, dependent on the pinion (4) position.

To change from one speed to another:

- Extract the drum (3), after unscrewing clockwise the charging key (2);
- Extract the double tooth pinion (4) integral with the drum axle and turn it over.

NOTE the gear has the rotation speed engraved: the correct reading is done from the top of the drum.

In place of 24 or 48 hours the rotation can be set daily or weekly (29 h and 20' or 176 h)



To insert the chart, proceed as follows:

- Unscrew the winding up key (2) clockwise
- Unscrew the drum (3) from the shaft of the chart driver.
- Unthread the chart clip (1)
- Wrap the chart on the drum, taking care to align the ends with the chart clip (1)
- Fix the chart reassembling the clip (1)

The double feed is inscribed on the charts: daily on the bottom edge, two days on top. Charts are identified by a number, according to normalized scales.

When it is not recording the writing tip must always be protected with its own cap.

While moving the device, it is strongly suggested to fix the pen on the vertical pen mover rod with an elastic clip.