

NORTHERN DIVER

MILITARY, RESCUE, COMMERCIAL & SPORT DIVING SPECIALISTS



INST-1 CLASSIC CONTENTS GAUGE WITH THERMOMETER

USER MANUAL

INTRODUCTION

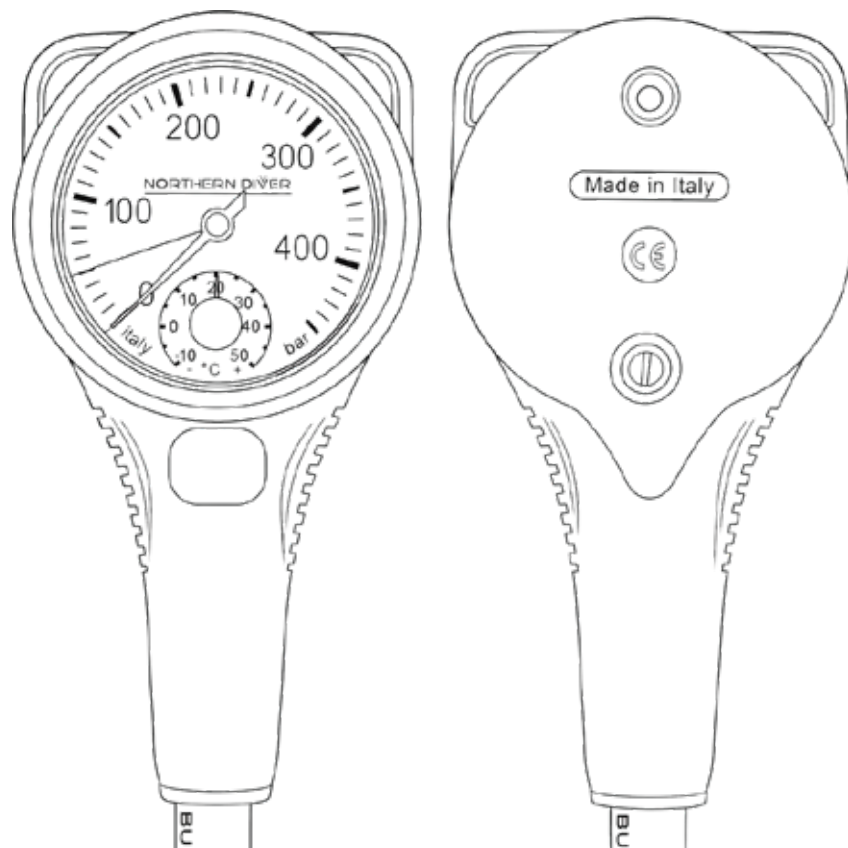
Thank you for choosing the **Northern Diver INST-12 Compact Contents and Depth Gauge**.

The INST-12 is a compact, high-quality console combining a submersible pressure gauge (SPG) and a maximum depth indicator (MDI). Designed to provide reliable monitoring of both cylinder pressure and dive depth, it is manufactured in Italy using premium materials to deliver dependable performance in demanding diving conditions.

Please read this manual carefully before use and retain it for future reference.

PRODUCT FEATURES

- High-quality analogue submersible pressure gauge
- Integrated water temperature gauge
- One-piece nickel-plated brass body
- Copper beryllium spiral Bourdon tube mechanism
- Luminescent, easy-to-read dial
- Polycarbonate impact-resistant lens
- Protective rubber housing
- 7/16" high-pressure swivel hose connection
- Standard thermoplastic high-pressure hose
- Compact, lightweight and durable construction



SPECIFICATION

Specification	Details
Maximum Pressure	450 bar
Pressure Gauge Range	0-450 bar
Pressure Gauge Graduation	10 bar increments
Temperature Display	Integrated analogue thermometer
Face Diameter	63 mm
Hose Length	81 (32")
Hose Connection	7/16" High-Pressure Swivel
Weight	276g
Body Material	Nickel-plated brass
Pressure Mechanism	Copper beryllium spiral Bourdon tube
Lens Material	Polycarbonate
Certification	EN250:2014 & Regulation (EU) 2016/425
Country of Manufacture	Italy

BEFORE DIVING

Before **every** dive:

- Inspect the gauge, hose and protective housing for signs of wear or damage.
- Check all hose connections for leaks.
- Confirm the pressure gauge returns to zero when disconnected.
- Slowly open the cylinder valve and verify the pressure reading.
- Ensure the thermometer lens is clean and undamaged for easy reading.

Do not use the gauge if any damage, leaks or inaccurate readings are observed.

DURING DIVING

Monitor your cylinder pressure regularly throughout the dive.

The integrated thermometer provides an indication of the surrounding water temperature. The temperature reading responds gradually to changes in water temperature and should be regarded as a guide rather than an instantaneous measurement.

Plan your dive to ensure sufficient breathing gas remains for:

- A safe ascent.
- Safety stop(s).
- Surface conditions.
- Emergency gas reserve.

Always maintain an adequate gas reserve appropriate to your dive plan.

AFTER DIVING

After **every** dive:

- Rinse the complete gauge thoroughly in fresh water.
- Gently rotate the hose swivel while rinsing to remove salt deposits.
- Allow the gauge to dry naturally before storage.
- Store away from direct sunlight, excessive heat and chemicals.

Avoid dropping or striking the gauge against hard surfaces

MAINTENANCE

The INST-1 contains precision measuring components.

- Have the gauge inspected annually by an authorised service technician.
- Replace the HP hose if damaged or when recommended during servicing.
- Do not dismantle or attempt to repair the gauge yourself.
- Replace worn or damaged O-rings using compatible components only.

SAFETY INFORMATION

This gauge is intended solely for monitoring scuba cylinder pressure and water temperature.

- Maximum working pressure is 450 bar.
- Use only with compatible scuba diving equipment.
- Never exceed the maximum rated operating pressure.
- Do not use the gauge if damaged, leaking or displaying inaccurate readings.
- Avoid exposure to excessive heat, solvents or aggressive chemicals.
- Always dive within the limits of your training, certification and local regulations.

Failure to follow these instructions could result in equipment failure, serious injury or death.

STORAGE

Store the gauge:

- Clean and completely dry.
- Out of direct sunlight.
- Between 5°C and 40°C where possible.
- Away from sharp objects, heavy loads and chemicals.

Do not store the hose tightly coiled or under excessive tension.

DISPOSAL

Dispose of the product in accordance with local regulations for metal, rubber and plastic components. Recycle wherever suitable facilities are available.

WARRANTY

This product is warranted against defects in materials and workmanship under the Northern Diver warranty terms.

The warranty does **not** cover:

- Normal wear and tear
- Accidental damage
- Incorrect installation
- Improper use or misuse
- Unauthorised repairs or modifications
- Damage resulting from inadequate maintenance

Please retain your proof of purchase for warranty claims.

MANUFACTURER INFORMATION

Distributed by:

Northern Diver (International) Ltd.

Manufactured in Italy.

Certified in accordance with:

EN250:2014

Regulation (EU) 2016/425

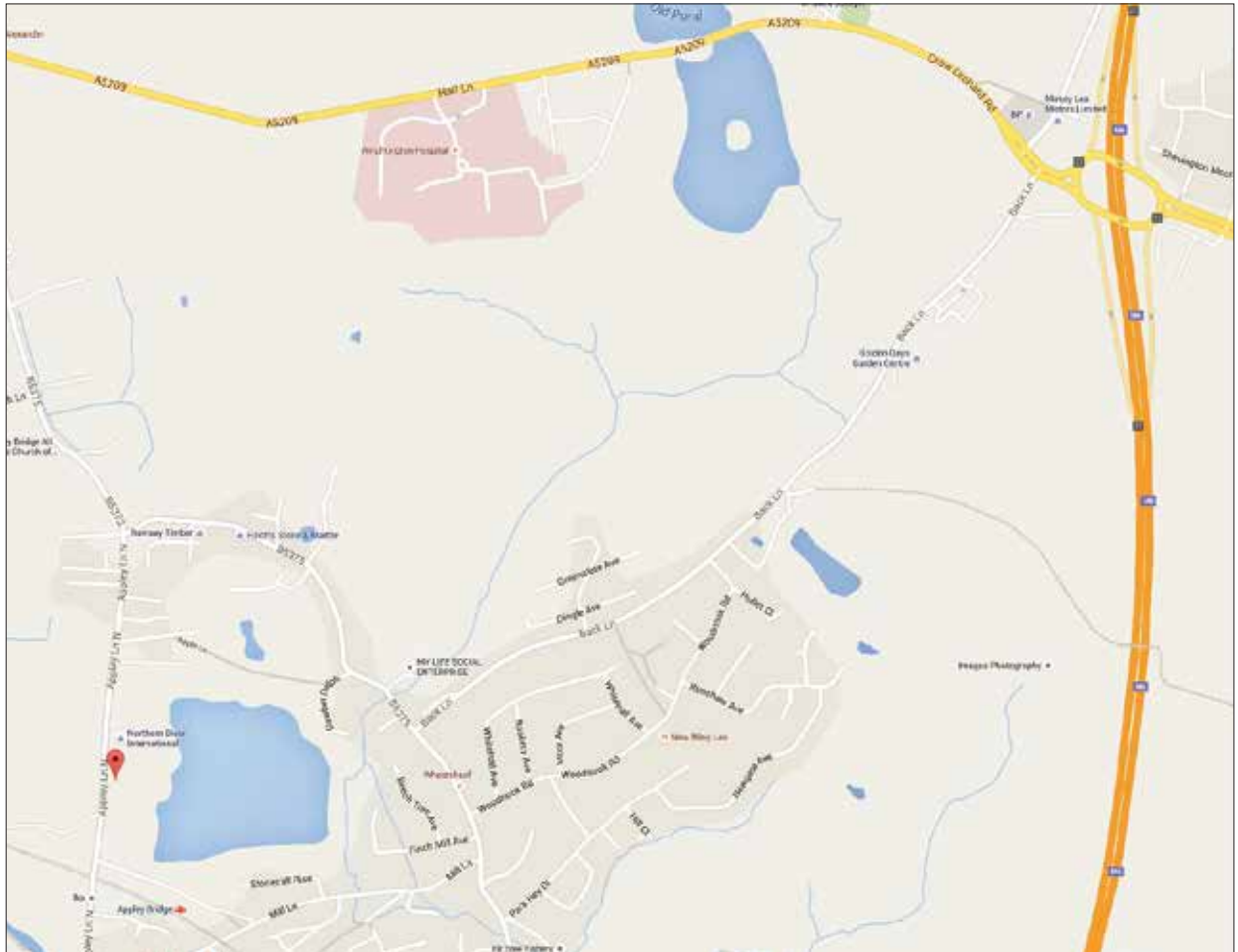
<https://www.ndiver.com/inst-10-classic-contents-gauge>



Find Us Online.

View our extensive product range

www.ndiver.com



We are happy to answer any questions you may have.

We are located in Appley Bridge, Lancashire, UK - only 5 mins from the M6 motorway (J27). Manchester & Liverpool international airports are only 40 mins away. Wigan North Western rail station is 2 hrs & 3 mins from London Euston. We are more than happy to collect clients and return them after their visit.



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