

# NORTHERN DIVER

MILITARY, RESCUE, COMMERCIAL & SPORT DIVING SPECIALISTS



*INST-12 COMPACT CONTENTS AND DEPTH GAUGE*

*USER MANUAL*

# **INTRODUCTION**

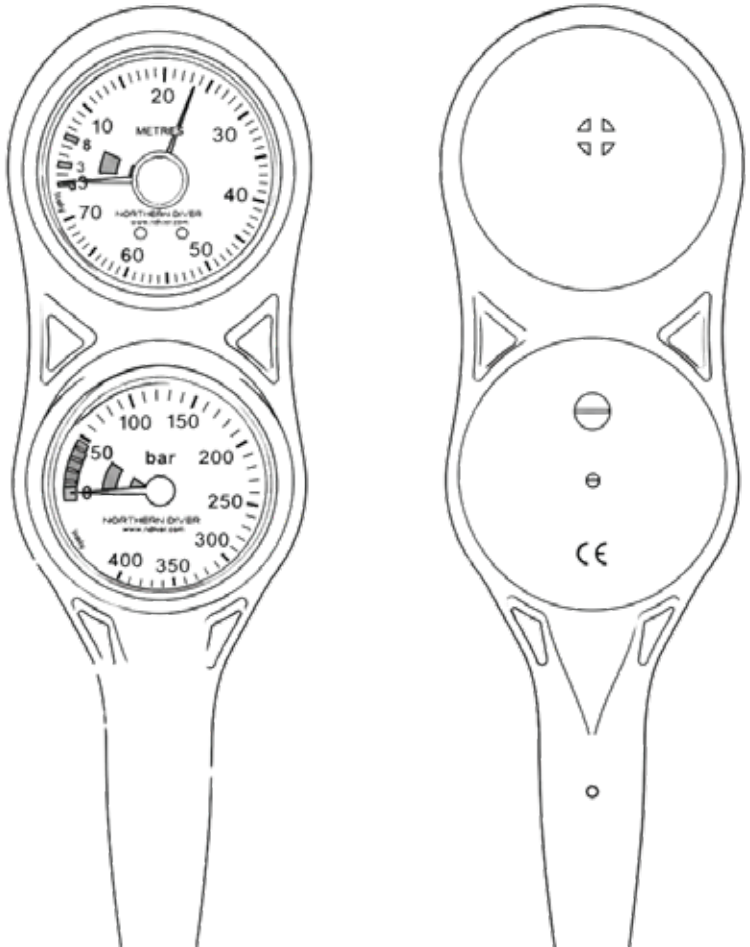
Thank you for choosing the **Northern Diver INST-12 Compact Contents and Depth Gauge**.

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

- Compact two-gauge console
- Submersible pressure gauge (SPG)
- Maximum depth indicator (MDI)
- One-piece nickel-plated brass pressure gauge body
- Copper beryllium spiral Bourdon tube pressure mechanism
- Easy-to-read luminescent dials
- Polycarbonate impact-resistant windows
- Protective rubber console housing
- High-pressure thermoplastic hose
- Compact, lightweight and durable construction



## SPECIFICATION

Specification	Details
Pressure Gauge Range	0-400 bar
Pressure Gauge Graduation	10 bar increments
Reserve Zone	Red marking from 50 bar to 0 bar
Depth Gauge Range	0-70 metres
Depth Gauge Graduation	1 metre increments
Face Diameter	42mm
Gauge Diameter	50mm
Hose Length	80cm (32")
Weight	389g
Pressure Gauge Body	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 console, hose and gauge lenses for damage.
- Check that all connections are secure and leak-free.
- Confirm the pressure gauge returns to zero when disconnected.
- Slowly open the cylinder valve and verify the pressure reading.
- Ensure the depth gauge pointer rests at zero before entering the water.
- Confirm the maximum depth indicator is reset before each dive.

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

## ***DURING DIVING***

Monitor both cylinder pressure and depth regularly throughout the dive.

The pressure gauge allows continuous monitoring of your remaining breathing gas.

The depth gauge displays your current depth, while the maximum depth indicator records the deepest point reached during the dive.

Plan your dive to ensure adequate breathing gas remains for:

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

The red section of the pressure gauge (below 50 bar) indicates reserve pressure. Begin your ascent before reaching this zone unless your dive plan specifically allows for reserve gas.

## ***AFTER DIVING***

After **every** dive:

- Rinse the complete console thoroughly in fresh water.
- Gently operate the hose swivel during rinsing to remove salt deposits.
- Allow the console to dry naturally before storage.
- Reset the maximum depth indicator after cleaning and before the next dive.
- Store away from direct sunlight, excessive heat and chemicals.

Avoid dropping or striking the console against hard surfaces.

## ***MAINTENANCE***

The INST-12 contains precision instruments.

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

## ***SAFETY INFORMATION***

This console is designed solely for recreational and professional scuba diving.

- Maximum pressure rating: 400 bar.
- Maximum depth gauge range: 70 metres.
- Always use the console with compatible scuba equipment.
- Never exceed the rated operating pressure.
- Do not use the console if damaged, leaking or displaying inaccurate readings.
- Avoid exposure to aggressive chemicals, solvents or excessive heat.
- 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 console:**
  - 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 with the hose tightly coiled or under 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**

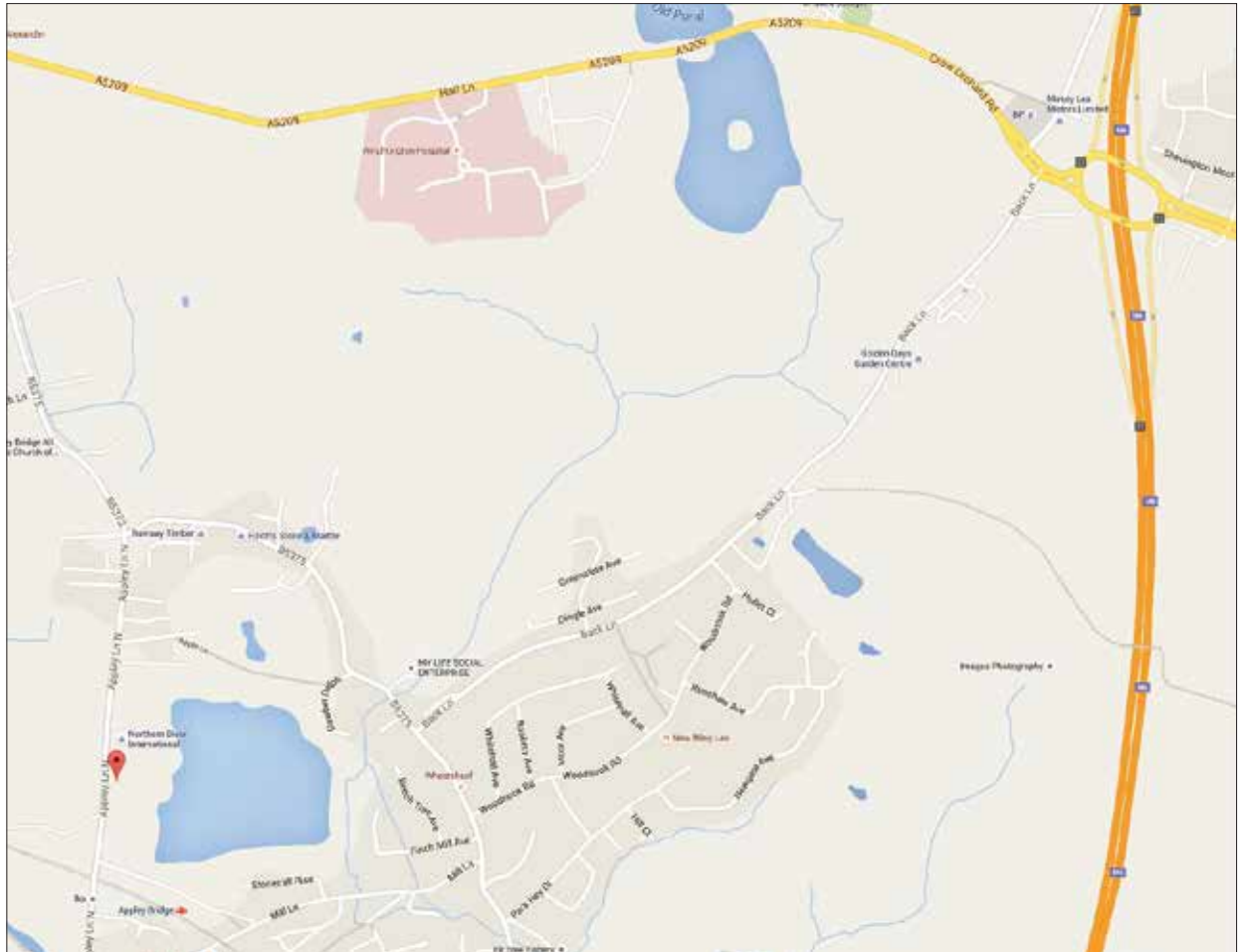
**<https://www.ndiver.com/inst-10-classic-contents-gauge>**



Find Us Online.

View our extensive product range

[www.ndiver.com](http://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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