

# CASCED Controlled English Translation

Source file: 液位/NU300数显液位传感器.pdf

Original diagrams and page relationships are retained in the paired source PDF. The following English text is the controlled translation and data transcription.

## NU300 Digital Float Level Sensor

Model: NU300

Product family: Level Measurement

Category: Digital Level Sensors

### Overview

Magnetic float level sensor with a bright LED display, programmable switch outputs, and optional analog output.

### Features

- 330° rotatable display and body
- Two-key menu
- Push-pull switch outputs compatible with PNP/NPN
- Threaded or flanged installation

### Applications

- Food and pharmaceutical
- Power generation
- Petrochemical
- Pulp and paper
- Boilers
- Water treatment
- Hydraulic reservoirs

### Technical Specifications

| Specification         | Source value                                                     |
|-----------------------|------------------------------------------------------------------|
| Probe lengths         | 250; 500; 750; 1000; 1500; 2000 mm; custom                       |
| Media                 | Liquids compatible with 304 stainless steel                      |
| Pressure              | 50 bar                                                           |
| Minimum media density | $\geq 0.7 \text{ g/cm}^3$                                        |
| Supply                | 12–30 VDC                                                        |
| No-load current       | $\leq 30 \text{ mA}$ at 24 VDC                                   |
| Switch outputs        | Two push-pull outputs, $< 500 \text{ mA}$ , $< 1 \text{ V}$ drop |

| Specification  | Source value                                                          |
|----------------|-----------------------------------------------------------------------|
| Current output | 0–20 mA or 4–20 mA, three-wire, load $\leq 500\ \Omega$               |
| Voltage output | 0–5 V or 1–5 V, three-wire, load $> 10\ \text{k}\Omega$               |
| Linearity      | $\leq \pm 1.5\%$ of range                                             |
| Display        | Red four-digit, 8 mm, seven-segment LED; -999 to 9999                 |
| Temperature    | -20°C to +80°C ambient; -20°C to +100°C media; -30°C to +80°C storage |
| Protection     | IP67                                                                  |

## Source-Control Status

Ready

# NU310 Digital Hydrostatic Level Sensor

Model: NU310

Product family: Level Measurement

Category: Digital Level Sensors

## Overview

Hydrostatic level sensor with digital display and programmable switch/analog outputs.

## Features

- Rod or submersible configuration
- Two switch outputs
- Current or voltage analog output

## Applications

- Water and low-viscosity oil level measurement

## Technical Specifications

| Specification         | Source value                                                                                      |
|-----------------------|---------------------------------------------------------------------------------------------------|
| Range                 | 200–2000 mm rod type; source also lists submersible configuration with partially unreadable range |
| Media                 | Liquids compatible with 304 stainless steel                                                       |
| Pressure              | 50 bar                                                                                            |
| Minimum media density | $\geq 0.7 \text{ g/cm}^3$                                                                         |
| Supply                | 12–30 VDC                                                                                         |
| Current output        | 0–20 mA or 4–20 mA                                                                                |
| Voltage output        | 0–5 V or 1–5 V                                                                                    |
| Linearity             | $\leq \pm 1.5\%$ of range                                                                         |

## Source-Control Status

Review required — NU310 appears only on page 3 of the NU300 file and the submersible range is unreadable.