



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

Operating Instructions

NAR300 System

Oil Leak Detector

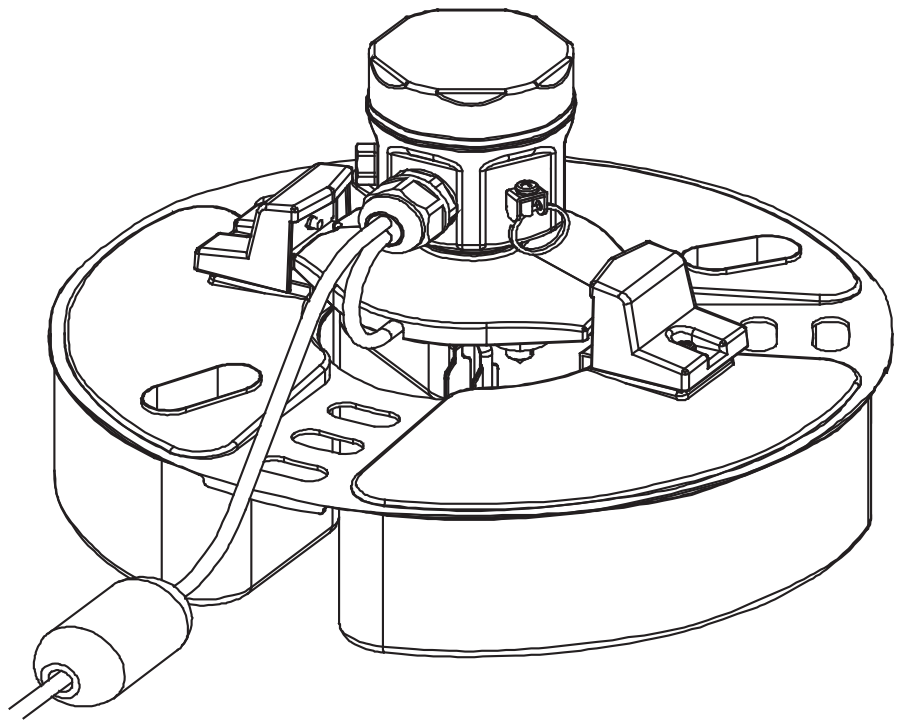


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1 Safety instructions

1.1 Designated use

The Oil Leak Detector NAR300 System uses two types of detection principles: conductivity sensor and Vibration sensor.

his system is set up in a pit, dike or plant, or sump pit near the pump yard, where it provides the ultimate leak detection function for petrochemicals or vegetable oils.

Flame proof System:

Alarm output transmitted to Host controller via connected Transmitter NRR261 (outdoor installation) and e.g. level transmitter with switching input

Intrinsically safe System:

Direct alarm output to host controller when connected in combination with Transmitter NRR262 (indoor installation).

1.2 Installation, commissioning and operation

- Mounting, electrical installation, start-up and maintenance of the instrument may only be carried out by trained personnel authorized by the operator of the facility.
- Personnel must absolutely and without fail read and understand this Operating Manual before carrying out its instructions.
- The instrument may only be operated by personnel who are authorized and trained by the operator of the facility. All instructions in this manual are to be observed without fail.
- The installer must make sure that the measuring system is correctly wired according to the wiring diagrams. The measuring system is to be grounded.
- Please observe all provisions valid for your country and pertaining to the opening and repairing of electrical devices.

1.3 Notes for Handling

Power cable

- Use cables recommended by Endress+Hauser.
- Be sure to ground the cables. For details, refer to "Electrical Connections" and "Installation"

Grounding

- Do not remove a ground terminal or wire power is on.
- For details, refer to "Electrical Connections"

External connection

If external connections are required, before connecting the device to an external control circuit, provide protective grounding

Caution!

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



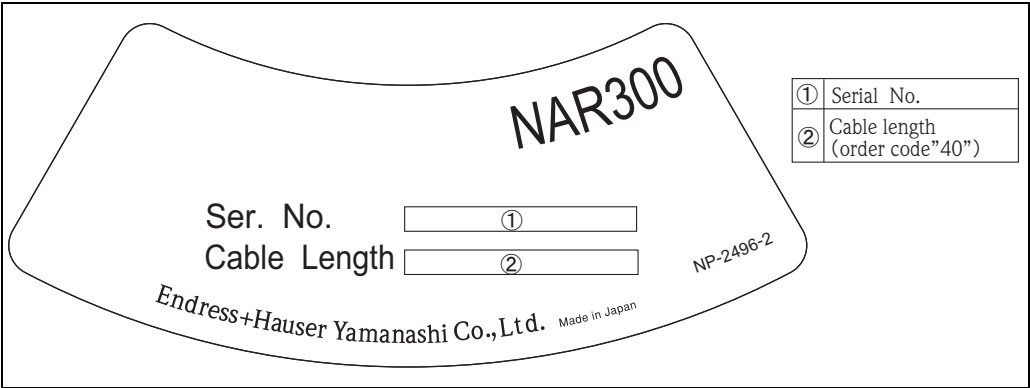
1.4 Notes on safety conventions and symbols

In order to highlight safety-relevant or alternative operating procedures in the manual, the following conventions have been used, each indicated by a corresponding symbol in the margin.

Symble	Meaning
	Warning! A warning highlights actions or procedures which, if not performed correctly, will lead to personal injury, a safety hazard or destruction of the instrument
	Caution! Caution highlights actions or procedures which, if not performed correctly, may lead to personal injury or incorrect functioning of the instrument
	Note! A note highlights actions or procedures which, if not performed correctly, may indirectly affect operation or may lead to an instrument response which is not planned
	Device certified for use in explosion hazardous area If the device has this symbol embossed on its name plate, it can be installed in an explosion hazardous area
	Explosion hazardous areas Symbol used in drawings to indicate explosion hazardous areas. – Devices located in and wiring entering areas with the designation “explosion hazardous areas” must conform with the stated type of protection
	Safe area (non-explosion hazardous area) Symbol used in drawings to indicate, if necessary, non-explosion hazardous areas. – Devices located in safe areas still require a certificate if their outputs run into explosion hazardous areas
	Direct voltage A terminal to which or from which a direct current or voltage may be applied or supplied
	Alternating voltage A terminal to which or from which an alternating (sine-wave) current or voltage may be applied or supplied
	Grounded terminal A grounded terminal, which as far as the operator is concerned, is already grounded by means of an earth grounding system
	Protective grounding (earth) terminal A terminal which must be connected to earth ground prior to making any other connection to the equipment
	Equipotential connection (earth bonding) A connection made to the plant grounding system which may be of type e.g. neutral star or equipotential line according to national or company practice

2 Identification

2.1 Float sensor NAR300 Nameplate



Information on the nameplate of the Float Sensor NAR300

NRR261-2xx

Endress+Hauser



NRR261

Order Code

NRR261-

①

Ser. No:

②

漏油検出装置

NR30261

③

Exd [ia] IIB T4

本安回路 2:

Uo≤13V

Io≤38mA

Po≤123.5mW

Co≤0.25μF

Lo≤80mH

非本安回路:

電 源:

④

許容電圧: AC250V 50/60Hz, DC250V

周囲温度: 60℃

被測定物温度: 60℃



注意:

・機器内部の部品及び配線の変更、改造等を行わないで下さい。

・許容温度70℃以上のケーブルを使用して下さい。

・容器の開放は、電源遮断後10分以上経過してから行って下さい。

・取扱説明書 (BA1027) を参照して下さい。



IP67

エンドレスハウザー山梨株式会社

Yamanashi 406-0846

Made in Japan

NP - 2478-2

①	SAP code
②	Serial No.
③	Explosion-proof type
④	Power supply

Ex d[ia] system (NAR300-11xxxx+NRR261-2xx system)

NRR262-2x

Endress+Hauser



NRR262

Order Code

NRR262-

①

Ser. No:

②

Oil Leak Detect System

NR30262

Oil Leak Detector NAR300-1

Protection class Ex ia IIB T4

Intrinsic safety circuit 2:

Uo≤13V

Io≤38mA

Po≤123.5mW

Co≤0.25μF

Lo≤80mH

Ambient Temperature: 60℃

Medium Temperature: 60℃



Endress+Hauser Yamanashi Co.,Ltd.

Made in Japan

NP-2535-1

Cautions:

・Do not modify parts and circuits of this instrument.

・Use the cables which thermal endurance is over 70℃.

・Refer to instruction manual (BA027)

Endress+Hauser Yamanashi Co.,Ltd.

Made in Japan

NP-2536-1

①	SAP code
②	Serial No.

NRR262-2x

Endress+Hauser



NRR262

Order Code

NRR262-

③

Ser. No:

④

漏油検出装置

NR30262

変換器

NRR262-1

防爆性能

Ex ia IIB T4

本安回路:

Uo≤28V

Io≤93mA

Po≤0.65W

非本安回路:

電 源:

④

許容電圧: AC250V 50/60Hz, DC250V

周囲温度: 60℃

注意:

・NRR262は、非危険場所に設置してください。

・機器内部の部品及び配線の変更、改造等を行わないで下さい。

・許容温度70℃以上のケーブルを使用して下さい。

・取扱説明書 (BA1027) を参照して下さい。



エンドレスハウザー山梨株式会社

Made in Japan

Yamanashi 406-0846

NP-2480-2

①	SAP code
②	Serial No.
③	Explosion-proof type
④	Power supply

Ex [ia] system (NAR300-13xxxx+NRR262-2x system)

6

Endress + Hauser

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