



Process Refractometer PR-43

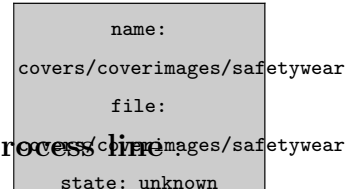
Instruction Manual

General safety considerations

The process medium may be hot or otherwise hazardous. Use **shields and protective clothing** adequate for the process medium - do not rely on avoidance of contact with the process medium.

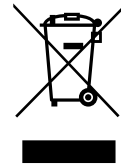
Precautions when removing a refractometer from the process line

- Check first that the process line is depressurized and drained.
- Ensure you are clear of any possible spillage and you have a clear emergency escape path.



Disposal

When wishing to dispose of an obsolete refractometer or any parts of a refractometer, please observe local and national regulations and requirements for the disposal of electrical and electronic equipment.



Symbols and terms used in this manual:



This indicates a **warning**. It provides safety precaution information needed to avoid injury while operating the refractometer system.



This indicates that something is **important** for the operation of the refractometer system.

Note. Notes contain additional information and hints.

Warranty

KMPatents is rigorous in ensuring that all products manufactured and supplied by KMPatents shall be free of defects in material and workmanship. KMPatents agrees to either replace or repair free of charge any product found to be defective, or parts thereof when returned to the nearest authorized KMPatents repair facility within two (2) years of the product's delivery date.

The warranty is void if the refractometer has been taken apart or in any way tampered with.

Before returning a defective product for service or replacement, please contact KM Patents or your nearest KMPatents representative (see <http://www.kpatents.com/> for contact information) for packing and shipping information. A Return Materials Authorization (RMA) form must be filled in and sent to KMPatents before the defective product is returned. The RMA form is available at <http://www.kpatents.com/> in the Support section.

Table of contents

1 Introduction

2

1 Introduction

The K-Patents in-line process refractometer is an instrument for measuring liquid concentration in the process line. The measurement is based on the refraction of light in the process medium, an accurate and safe way of measuring liquid concentration. See Chapter ?? for more information on the measurement principle.

The PR-43 refractometers come in three standard packages: a stand-alone refractometer with Web user interface WI, a refractometer with Compact user interface CI and 1-4 refractometers with Multichannel user interface MI.

Web user interface WI is for direct control system integration in applications where no industrial computer or monitoring display is required (see Chapters ??, ?? and ??). Compact user interface provides a local or remote display with the same information as WI (See Compact user interface CI manual). Multichannel user interface provides high performance industrial computing e.g. for multiple connectivity and wash control (see Multichannel user interface MI manual).