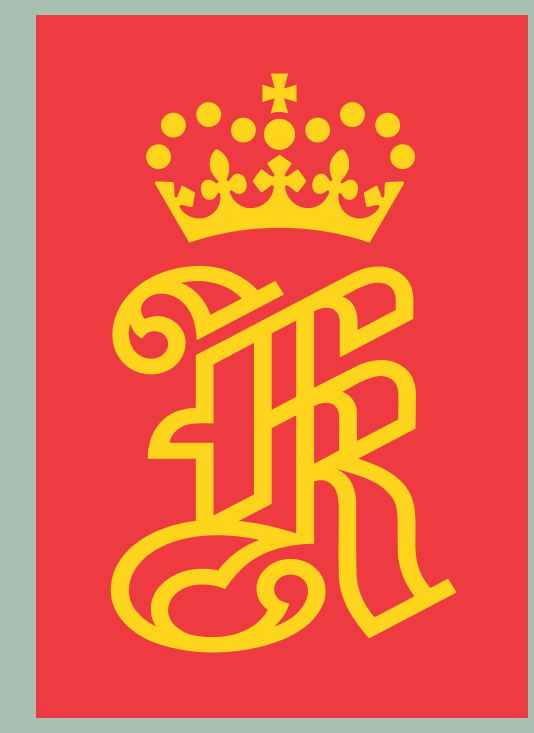
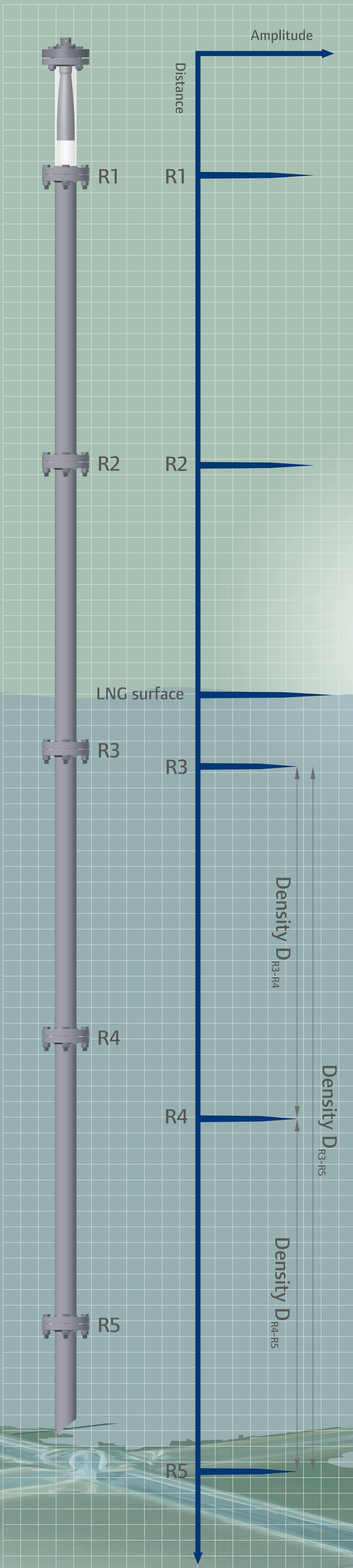


# K-Gauge CTS

Combined RADAR based level & density measurements



KONGSBERG



## Custody Transfer System

### Energy of LNG

$$E_{LNG} = V_{LNG} \times D_{LNG} \times GCV_{LNG}$$

### Volume of LNG, $V_{LNG}$

- Accurate level measurements by dual sweep FMCW technology
- Automatic calibration & self-verification by AUTROCAL®
- 1 litre resolution on level to volume calculation
- Configurable CTS reports with LNG volume, vapour pressure and temperature
- Filter functions for offshore operations

### Density of LNG, $D_{LNG}$

- Accurate density of LNG measured between two known references by use of AUTROCAL®
- Density continuously measured in-situ for monitoring of LNG ageing
- Density profile monitoring as input to roll-over prediction

### Gross calorific value of LNG, $GCV_{LNG}$

- Calculated from composition data