

# ISO 21562:2020 (E)

## Ships and marine technology — Bunker fuel mass flow meters on receiving vessel — Requirements

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols and abbreviated terms
5	Design and environment testing
5.1	Materials and equipment
5.2	Environmental tests
5.3	Hydrostatic test
5.4	Temperature
5.5	Pressure rating
5.6	Non-metallic materials
5.7	Marking
6	Metrological requirements
6.1	General
6.2	MFM requirements
6.3	MFM system requirements
7	Security requirements
7.1	General
7.2	Security features
7.2.1	Equipment security
7.2.2	Software security
7.2.3	Measurement data recording
8	MFM selection and installation requirements
8.1	General
8.2	MFM selection
8.3	MFM system installation and commissioning
9	MFM system verification
10	Metering procedures
10.1	General
10.2	Documentation
10.3	Bunker fuel receipt
10.3.1	Custody transfer pre-delivery conference
10.3.2	Preparation of MFM system for bunker receipt
10.3.3	Start of bunker receipt
10.3.4	End of receipt
Annex A	(informative) Example set-up of a laboratory calibration facility for a Coriolis MFM — Gravimetric (weighing) method
Annex B	(informative) Schematic diagram of MFM system on receiving vessel
Annex C	(informative) Information required — Checklist