

# GAS METERING – DM DATA REQUIREMENTS

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## VERSION RELEASE HISTORY

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## 1. INTRODUCTION

### 1.1 Purpose and Scope

This guide documents the AEMO requirements for data from Interval Meters also referred to as “Daily Meters” (DMs) associated with the Victorian gas market operated by AEMO.

This guide applies to all DMs except those that have derogations under the NGR. Where there is an apparent discrepancy between these guidelines and the NGR, the NGR will be taken as correct.

This guide covers DM metering data to be transmitted under the Wholesale Market Metering Procedures (Victoria). AEMO may approve alternative arrangements at their discretion.

### 1.2 Definitions and Interpretation

#### 1.2.1 Glossary

The words, phrases and abbreviations set out below have the meanings set out opposite them when used in this guide.

Terms defined in the NGL or the NGR have the same meanings in this guide unless otherwise specified in this clause. Those terms are intended to be identified in this guide by italicising them, but failure to italicise a defined term does not affect its meaning.

Term	Definition
DM	“Daily Meter” Metering facility which includes the metering equipment and associated field data processing systems (RTU, corrector or logger)
HV	Heating Value (the Higher Volume HV is used for DM calculations)
Julian time	Time based on Julian calendar as a numbered sequence
MIBB	Market Information Bulletin Board – an AEMO online information system
NGR	National Gas Rules
Responsible Person	The person or organization responsible for the metering installation as defined in the NGR
Standard Conditions	Reference or base conditions of gas measurement (15 °C and 101.325 kPa absolute)

### 1.3 Related Documents

Reference	Title	Location
Gas Distribution Code	The Gas Distribution Code	Essential Services Commission website
NGR	Declared Wholesale Market Rules	AEMC website
	Wholesale Market Metering Procedures (Victoria)	AEMO website
	"Gas Metering -- CTM Data Requirements"	AEMO Website

## 2. REQUIREMENTS

### 2.1 Telemetry of Data

AEMO does not require telemetry of data for distribution meters.

### 2.2 Time Stamping of Data

All readings require a “time stamp” as below:

- Australian Eastern Standard Time is to be used in data transfers for all time stamping.
- Time stamping shall refer to “hour to hour, on the hour” data.

- For averaged data the time stamp relates the start time of measurement period. For example “hourly average” data for the 9:00 to 10:00 period would be time stamped 9:00:00 am.
- The time stamping of data shall be within the tolerances specified in the NGR.

### 2.3 Metering Data to be available to AEMO

The following table gives a list of the “standard set” of metering data. The data listed provides sufficient information to recalculate consumption when combined with gas composition data.

The data is required to enable AEMO to check the validity of energy and volume readings supplied from the metering installation. The data assists in the development of data substitutions in the event of data corruptions.

The data arrays listed provide sufficient information to recalculate results in the event of a wide range of RTU failures and also provide sufficient data to enable the checking of calculations performed by the RTU.

The following DM data is required by AEMO and must be available in time for market settlement.

**Table 1 Hourly Average Data. “On the Hour”**

Field Name	Units	Data Type	Nullable	Description
MIRN	-	varchar(10)	not null	meter registration number
gas_date	-	datetime	not null	gas date
ti	-	int	not null	trading interval
Temperature	Deg C	int	null	temperature for ti
Pressure	kPag	int	null	pressure for ti
Uncorrected flow	SCM/H	double	null	Uncorrected flow for ti
Corrected flow	KSCM/H	double	null	Corrected flow for ti
Electronic Index	-	double	null	Electronic Index from datalogger

- At installations where the metering is performed by two or more meters, the data listed above where relevant, should be provided for each individual meter. The same data, where relevant, should be provided for the “station total”.
- The above table refer primarily to positive displacement and turbine meters. If orifice meters are used, the average differential pressures for each of the metering runs are also to be provided or as otherwise agreed with AEMO.