

IOT MODULE

MODEL AIOT-100

WIFI + 4G LTE · RS-485 · CLOUD MONITORING

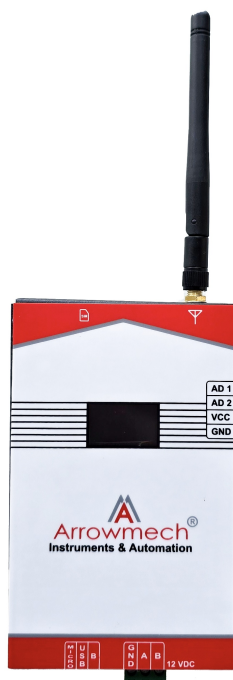


FIG. 01 — AIOT-100 IOT MODULE

DIN-RAIL MOUNTED · EXTERNAL ANTENNA

CONNECTIVITY	INPUT	MOUNTING	POWER	MONITORING
WiFi + 4G LTE	RS-485	DIN rail	12 V DC (230 V AC adapter)	Web · iOS · Android

01 INTRODUCTION

The Arrowmech AIOT-100 is a cloud gateway for Arrowmech flow meters. It acquires measurement data over RS-485 — from any Arrowmech flow meter with an RS-485 output — and transmits it to the cloud over built-in WiFi or 4G LTE. Flow data is monitored through the Arrowmech web dashboard and iOS & Android applications. A ready-made Industry 4.0 solution that can be fully customised to user requirements.

02 FEATURES

- **RS-485 input** — One flow meter per module.
- **WiFi + 4G LTE built in** — Both in a single model, with 4G / VoLTE SIM support.
- **LAN connectivity** — Optional.
- **Web configuration** — Set up and manage the module from a browser.
- **Web, iOS & Android apps** — Monitor flow data from anywhere.
- **On-board status display**
- **DIN-rail mounting** — Drops into any standard control panel.
- **Provisional analog inputs** — AD1 / AD2 terminals for future expansion.
- **Fully customisable** — Adapted to specific project requirements on request.

03 SPECIFICATION

PARAMETER	SPECIFICATION
Function	Cloud gateway for flow meter data
Data input	RS-485 · one flow meter per module
Compatibility	Any Arrowmech flow meter with RS-485 output
Connectivity	WiFi + 4G LTE, built in · LAN (optional)
SIM type	4G / VoLTE
Antenna	External
Analog inputs	AD1 / AD2 (provisional)
Service port	Micro-USB
Configuration	Web-based
Monitoring	Web dashboard · iOS & Android apps
Power	12 V DC input · 230 V AC adapter supplied
Mounting	DIN rail

04 SYSTEM ARCHITECTURE

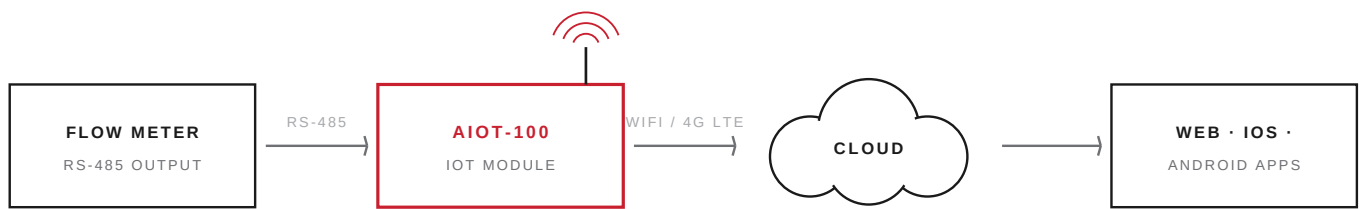


FIG. 02 — AIOT-100 DATA PATH: METER TO CLOUD TO WEB & MOBILE MONITORING

05 CONFIGURATION



The AIOT-100 is supplied complete with external antenna and a 230 V AC power adapter (12 V DC output). It mounts on a standard DIN rail beside the flow meter or inside the control panel. Wiring is three terminals — GND, A and B — from the flow meter's RS-485 output. Each module reads one flow meter; multi-meter sites use one module per meter.

COMPATIBLE FLOW METERS

AEFM-100

AVFM-100

ATFM-100

AUFM-100

FIG. 03 — AIOT-100 WITH EXTERNAL ANTENNA

Front panel: status display, AD1/AD2 terminals, micro-USB, RS-485 (GND · A · B), 12 V DC input.

06 ARROWMECH FLOW METER APP

Flow data from every AIOT-100 is available in the Arrowmech Flow Meter app — live readings, full-date reports, shift-wise reports and custom-duration reports, on your phone. Scan the codes to download from Google Play or the iOS App Store.



SCAN TO DOWNLOAD
GOOGLE PLAY



SCAN TO DOWNLOAD
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