



Gladiator LoRaWAN



Fully integrated "under-the-glass" IoT long-range transmitter

Gladiator LoRaWAN, Arad's industry-leading residential water meter, is a fully integrated "under-the-glass" IoT long range transmitter.

Gladiator LoRaWAN is an IoT plug-and-play device that meets all LoRa IoT infrastructure requirements. It integrates seamlessly with LoRa-based IoT service providers and SaaS platforms worldwide.

When integrated with Arad's MDM platform, Gladiator LoRaWAN meters provide a powerful, end-to-end water management solution.

Key features and benefits:

- Robust and reliable, with a lifetime of up to 15 years*
- alerts: leak detection, tilt, tamper, reverse flow
- Secure, with full AES128 data encryption
- Worldwide compliance

LoRaWAN specification

- Two way communication
- Device class A
- Over the air activation (OTAA)
- Activation By Personalization (ABP)
- Adaptive data rate (ADR)
- Frequency band:
 - 8XX MHz (EU Version)
 - 9XX MHz - US, AU, AS (923 MHz)
 - FCC
 - CE

* Calculated according to default usage

Gladiator LoRaWAN



Standards

- MID 2014/32/EU (based on OIML R49
- EN 14154 and ISO 4064:2005),
- WRAS 1307073/ 1504700
- NMI R49
- AS 3565
- AS 4020
- AWWA C700-15

Technical Specifications

Maximum Working Pressure	16 bar
Maximum Working Temperature	50°C
Body	Highly reinforced composite material
Coupling Threads (For inline)	BSP, METER, NSW
Inlet / Outlet Threads	3/4" (For pipe size 1/2") 1" (For pipe size 3/4")
IP68	Integrated optical reader
Electrical Continuity	Brass - end, connections and continuity bridge

Performance data

Model	Nominal Size (mm)	Q4 Maximum flowrate (kL/h)	Q3 Nominal flowrate (kL/h)	Q2 Transitional flowrate (l/h)	Q1 Minimum flowrate (l/h)	R Q3/Q1	ΔP at Q3 (ISO class)	Maximum register capacity (kL)	Minimum register capacity (l)	Sensitivity (l/h)
P15 (inline)	15	2.0	1.6	8.0	5.0	315	25	10 ⁵	0.02	2
				10.24	6.4	250				
				12.8	8.0	200				
		3.125	2.5	10.0	6.25	400	63			
				12.8	8.0	315				
				16.0	10.0	250				
P20 (inline)	20	3.125	2.5	10.0	6.25	400	40	10 ⁵	0.02	2
P20 (inline)	20	5.0	4.0	25.6	16.0	250	63	10 ⁵	0.02	2