HYDRIX: AI-POWERED METER READING

From Fragmented Field Processes to an AI-Powered Meter Reading Platform

Continuously enhanced over approx. 15 years, Hydrix supports water and gas meter-reading operations, processing approx. 500,000 readings per month, including 50,000 AI-assisted.

INDUSTRY	EXPERIENCE	OPERATIONAL VOLUME	HISTORICAL EXPANSION
Water & gas meter reading services	Approx. 15 years	Approx. 500,000 readings / month, incl. approx. 50,000 AI-assisted	Original customer + 5 additional reading companies

THE CHALLENGE

Meter reading companies collected readings in the field and submitted them to property management companies — each of which required the data in its own spreadsheet format.

Manual recording in the field → Spreadsheet preparation per client format → Review → Email distribution

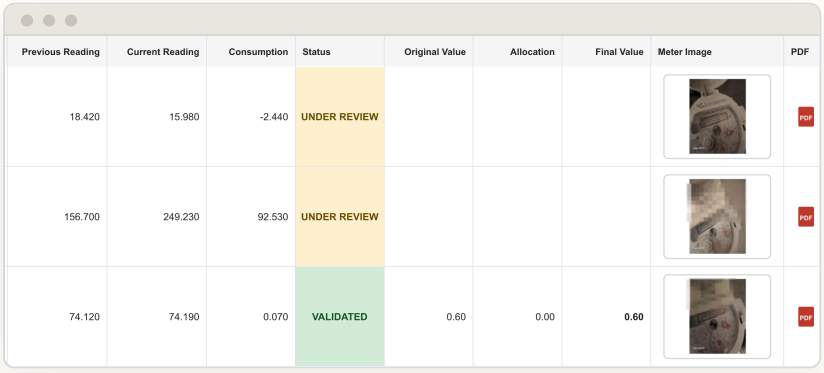
HOW THE SOLUTION EVOLVED

STAGE 1
Automated spreadsheet generation and distribution in customer-specific formats.

STAGE 2
Expansion from the original customer to five additional meter reading companies.

STAGE 3
Mobile app for field photos and readings, with offline operation and later sync.

STAGE 4
AI reading extraction from meter photos — water meters; gas meters since October 2026.



Previous Reading	Current Reading	Consumption	Status	Original Value	Allocation	Final Value	Meter Image	PDF
18.420	15.980	-2.440	UNDER REVIEW					
156.700	249.230	92.530	UNDER REVIEW					
74.120	74.190	0.070	VALIDATED	0.60	0.00	**0.60**		

Hydrix review screen (detail): readings with consumption, status, and meter photo. Inconsistent readings are held as "Under review" for a person to check. Anonymized data; meter photos partially blurred.

AI WITH VALIDATION BUILT IN

Image recognition is combined with historical readings, business rules, and exception handling. Uncertain or inconsistent readings can be routed for human review.

CURRENT CAPABILITIES

- Mobile field collection
- Offline synchronization
- AI-powered reading extraction
- Historical validation
- Exception handling
- Operational dashboards
- Reporting
- Automated file export & distribution

PRODUCTION SCALE

~500,000 readings / month

~50,000 AI-assisted readings / month

Included in the total (approx. 10%). Annualized: ~6 million total and ~600,000 AI-assisted readings / year; monthly volumes × 12, not measured annual totals.