Automatic inspection patrol report

BONUM Robótica · Demo plant · Robot Go2-01 · 2026-09-24 · Generated by the robot at the end of the patrol

6	4	3	1
readings	findings	work orders	obstacle avoided

Readings

Tag	Point	Value	Status
FIT-101	Discharge flow P-101/P-102 · display	42.7 m³/h	**ALARM**
TT-102	Motor P-102 · coupling-side bearing (thermography)	79.1 °C	**PREDICTIVE**
V-301	Ball valve V-301 · P-102 discharge	OPEN	**OK**
V-302	Ball valve V-302 · P-102 discharge	CLOSED	**ALARM**
US-12	Steam line · leak (ultrasound 38–42 kHz)	53.4 dB	**ALARM**
PI-401	North header · pressure	5.1 bar	**OK**

Cross-check: V-302 closed explains the low flow at FIT-101 (P-102 discharge restricted).

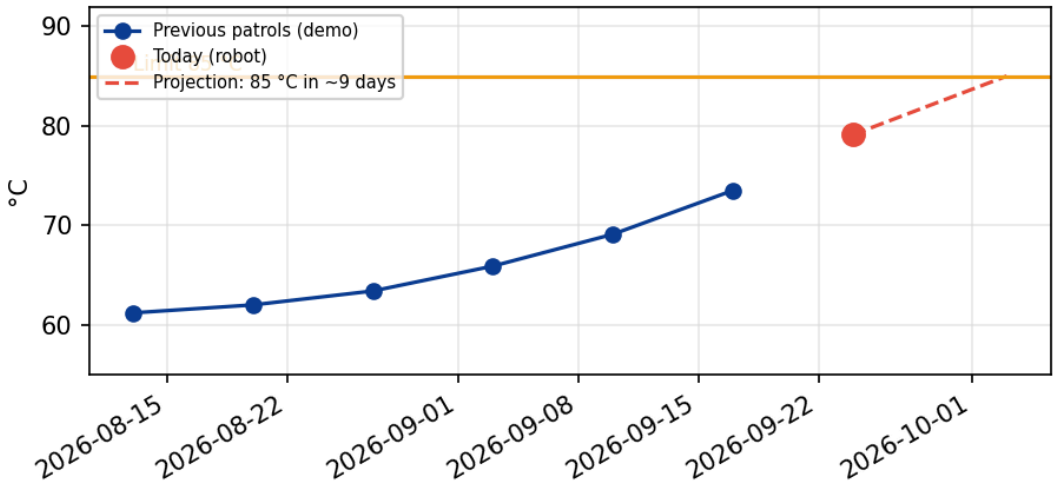
Work orders generated

OT-20260924-01 · TT-102 · Priority: **High**
Equipment: P-102 pump (motor)
Finding: Bearing temperature rising
Suggested action: Check lubrication and vibration on the coupling-side bearing; schedule replacement at the next shutdown

OT-20260924-02 · V-302 · Priority: **High**
Equipment: P-102 discharge line
Finding: Valve V-302 found closed; low flow at FIT-101
Suggested action: Operations: verify permit and restore line-up (open V-302)

OT-20260924-03 · US-12 · Priority: **Medium**
Equipment: Steam line (east wall)
Finding: Ultrasonic emission next to flange FL-12
Suggested action: Maintenance: re-torque or replace the FL-12 gasket; confirm with a handheld ultrasonic detector

Trend: P-102 bearing



Route, obstacle and ultrasonic map

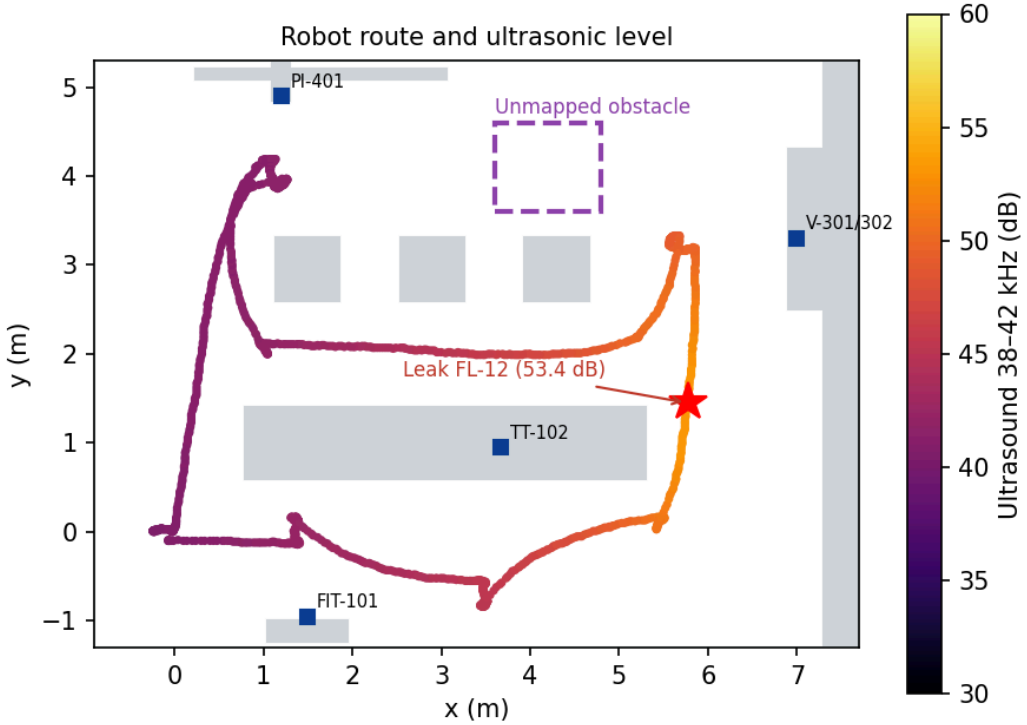
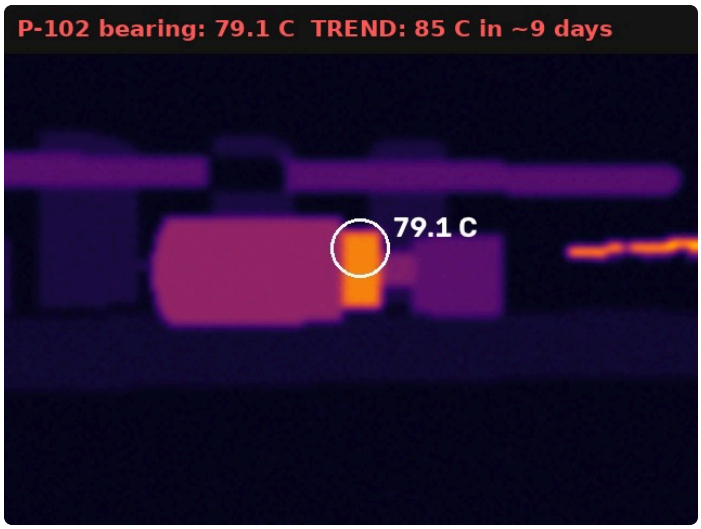


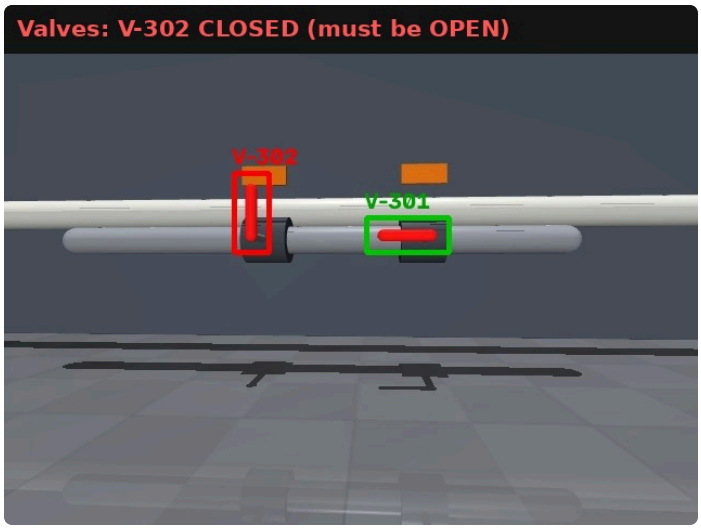
Photo evidence



FIT-101



P-102 thermography



V-301 / V-302



PI-401

Physics simulation demo (MuJoCo) using the public Unitree model and SDK. Plant, values and previous-patrol history are for demonstration; thermal camera and ultrasonic microphone are simulated.