

Base v1.6 (included with all Pillars)

Matrix Box Connection & Setup, Web Dashboards, Biannual Asset Review, and SISO Expert Support.

PILLAR I Performance v1.6

Recent Performance

- Overall performance of all units
- All units overlaid for quick comparison
- Past month data shown
- Slice data to focus on specific areas

Monthly Unit Performance

- 3 month data shown for one unit
- Identify unit specific issues

Component Performance

- Each major engine component is analyzed
- All units displayed together
- Flexible 6 month historical data*

Performance Comparison

Data Comparison available for

- Engine Performance issues
- Run-to-Run changes
- Find problematic components
- Organize by engine condition/operating point

Performance Support

- Investigate performance issues
- Troubleshooting and Recommendation
- Performance trends & reviews

Recent Alarms

- Web dashboard with diagnostics
- Alarms sorted, counted, & filtered
- SISO Experts provide Alarm Action Plan

Alarm Historian

- One stop for all units alarms
- Multiple filters can be applied
- Patterns identified using daily alarm data
- Unique vs Recurring Alarms

Alarm Support

- Alarm investigation
- Troubleshooting and Recommendation
- Actionable solutions

Unit Counter

- Used to monitor various components (pumps, fans, etc.)
- Ensures run time is balanced
- Identifies irregularities
- Produced vs Consumed

Regulator Monitor

- Tracks operating condition of each unit /Fuel regulator control
- SISO Experts alerted and will assess if action is required by site personnel in real time

PILLAR III Compliance v1.6

Component Partial & Full Cycle Monitoring

- SISO-developed system that calculates and monitors the Parts Cycle for LMS100 PA and LM6000 Engines
- Designed for reporting

Cycle Monitoring

- Partial Cycles – 10%, 50%, 75% load changes
- Full Cycles
- Trip Cycles
- Cycle Counters for individual components
- Hot/Warm/Cold Start counters

Web Based Report

- Dashboard display of each asset's cycle counters
- Dashboard display of individual component cycles
- Historical data maintained*

Live Trending

- Offers remote visibility into KPIs
- Real-Time data stream to Matrix Box is ~5 sec.

Live Alarms

- Active alarms displayed on real-time online dashboards
- Units can be monitored as they run so action can be taken ASAP
- Alarm History for 30 days

Trip & Call-Out Alerts

- Alerts sent via Text/Email when trips or alarms are triggered
- Available for up to 10 users

Trip Logs Auto-Pull

- Matrix pulls Trip Logs from control system equipment and stores in the Cloud

SUPPORTED SYSTEMS

- Mark VIe DDRs and Trip Logs
- Multilin 660*
- Beckwith 3524A*
- Woodward Micronet, Flex500

Custom Alerts

- Alerts can be placed on any Analog or Boolean Variable
- Customer configuration

Remote Access

- A cyber-secure firewalled connection allows remote, real-time support

PILLAR II R.A.M.

PILLAR IV Real-Time