

Kwikstart

LOGIKOS[®] M7



ULTIMATE PUMP MANAGEMENT

• Focus on Superior Station Monitoring Ability

Control system incorporates advanced monitor functions to ensure total control and reliability.

OPERATION FEATURES

- Pump operating status - LED and text indication of auto/off/manual mode and pump run status for each pump.
- Three text fault menu displays - Current, Present and Previous Alarms, aiding accurate fault diagnostics.
- Critical faults activate red alarm light (Well glass) and audible alarm.
- Alarm fault light selectable flashing or steady.
- Audible alarm can be set for either manual mute or auto mute after adjustable time of up to 3600 seconds.
- High Level alarm - selectable latching or auto reset.
- Low Level alarm - turns pump off in Empty mode. Fault latches, but pumps able to run when level reaches Start.
- LED display of level regulator activation.
- Level Sensor fault monitoring - over-rides faulty sensor plus activates alarm. Auto resets.
- No Pumps OK fault output - ensures operator realises that neither pump is available.
- Pump diagnostics - records hours run and number of starts of each pump, and monitors motor temperature (thermostat or PTC100 thermistors) and condition of seal oil.
- Pump Service Required indication - non-critical fault activates when pump running hours reaches preset figure.
- Hardware diagnostics test.
- Time delay on starting second pump if other pump is running in Dual Pumps mode - prevents both pumps starting together when power restored after an outage.
- Maximum off time feature - will start a pump if no pumps have run during an adjustable preset time, providing there is liquid in the pit. Prevents septic sewage and maximizes storage volume.

PROTECTION FEATURES

- Constant monitoring of all three phases of electrical supply to protect pumps from phase fail or under/over voltage.
- Anti-cycle protection timer to limit excessive starts to the maximum pump rating - protects pump motor and enables selection of smaller pit detention volumes.
- Dry-run protection in Manual mode - pump turns off automatically when there is no liquid in station. In addition, there is a special over-ride function that by-passes all level controls and pump protections to enable pit to be pumped dry - turns pump off automatically after 10 minutes.
- Pump choke or reflux valve choke protection - automatically changes pumps in Single Pump mode on high level fault. Locks out pump if fault occurs three times sequentially.
- High pressure and no-flow protection alarm inputs for each pump with by-pass time delays.*
- PLC telemetry communication output of all system and pump status data including faults and liquid level, via serial data stream.*
- All faults can be individually prioritized for Critical or Non-critical telemetry outputs, allowing non-critical faults to be transmitted during business hours, with or without local audible and visual alarm indication.*
- Selectable upgrade of non-critical fault to critical fault output if both pumps fail.*

*Logikos M7 Plus enhanced version only.

 **ALL-PUMPS**
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LOGIKOS® M7 PLUS

REMOTE MONITOR ABILITY

A range of monitor options are available with the Kwikstart Logikos M7 Plus system to allow monitoring to be tailored to your exact requirements.

Feature	Kwikstart Monitor Option			
	M100	M200	M300	M400
Critical/Non-Critical Alarm Monitor	✓	✓	✓	✓
Additional Monitor Conditions	0	2	8	Multiple
Land Line Capability	✓	✓	✓	✓
GSM/GPS Capability	x	x	✓	✓
Battery Back Up	✓	✓	✓	✓
Power Available Monitor	✓	✓	✓	✓
ModBus Communication Protocol	x	x	x	✓
SMS Text Message Capability	x	✓	✓	✓
Cabinet Security Alarm Potential	x	✓	✓	✓

*M400 monitor capabilities include, but not limited to; Constant Station Level Monitor, Hours Run, Pump Operation and Full Fault Monitor Status.

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