| Category Feature Level Controller Con | | | SITRANS LUT420 | SITRANS LUT430 | SITRANS LUT440 |
|--|------------------------------|---|-------------------|-------------------|-------------------|
| Cervei, Open Channel Flow measurement | | Feature | | Pump and Flow | Accuracy OCM |
| Volume conversion V | Operations | Level, Space, and Distance measurement | ✓ | ✓ | ✓ |
| Compatible with Echomax & ST-H transducers Standard Accuracy: ±1 mm +0.17% of measured distance High Accuracy: ±1 mm within 3 meters Mounting options: wall or panel, pipe, DIN-rail A-20 mA Output (Active and Passive) Integrated Datalogger for measurement value and alarms A-20 mA Output (Active and Passive) Integrated Datalogger for measurement value and alarms A-20 mA Output (Active and Passive) Integrated Datalogger for fixed rate Flow logging Integrated Datalogger for variable rate Flow logging triggered by changes in flow condition A-20 mA Output (Active and Passive) A | | Open Channel Flow measurement | | ✓ | ✓ |
| transducers Standard Accuracy: ±1 mm +0.17% of measured distance High Accuracy: ±1 mm within 3 meters Mounting options: wall or panel, pipe, DIN-rail Phaceuracy: ±1 mm within 3 meters Mounting options: wall or panel, pipe, DIN-rail HART Communications HART Communications 4-20 mA Output (Active and Passive) Integrated Datalogger for measurement value and alarms Integrated Datalogger for fixed rate Flow logging Integrated Datalogger for variable rate Flow logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification MCERTS Class 2 Certification Pump Run-on Functionality Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | Volume conversion | ✓ | ✓ | ✓ |
| Standard Accuracy: ±1 mm +0.17% of measured distance High Accuracy: ±1 mm within 3 meters Mounting options: wall or panel, pipe, DIN-rail PHART Communications 4-20 mA Output (Active and Passive) Integrated Datalogger for measurement value and alarms Integrated Datalogger for fixed rate Flow logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification Pump Control Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | Specifications | | , | , | , |
| measured distance | | | → | ✓ | ✓ |
| Mounting options: wall or panel, pipe, DIN-rall Patalogging & Communications HART Communications HART Communications HART Communications A-20 mA Output (Active and Passive) Integrated Datalogger for measurement value and alarms Integrated Datalogger for fixed rate Flow logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature Flow Monitoring High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification Pump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | l | | ✓ | ✓ | ✓ |
| Mounting options: wall or panel, pipe, DIN-rail Patalogging & Communications HART Communications HART Communications 4-20 mA Output (Active and Passive) Integrated Datalogger for measurement value and alarms V V V Integrated Datalogger for fixed rate Flow logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature Flow Monitoring High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification Pump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Submergence Detection Discrete Input Pump Interlocks | | High Accuracy: ±1 mm within 3 meters | | | ✓ |
| Datalogging & Communications HART Communications 4-20 mA Output (Active and Passive) Integrated Datalogger for measurement value and alarms Integrated Datalogger for fixed rate Flow logging Integrated Datalogger for variable rate Flow logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification Pump Control Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | Mounting options: wall or panel, pipe, DIN- | _ | _ | _ |
| Communications 4-20 mA Output (Active and Passive) Integrated Datalogger for measurement value and alarms Integrated Datalogger for fixed rate Flow logging Integrated Datalogger for variable rate Flow logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature Flow Monitoring Flow Monitoring Fligh Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification Pump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | Datalogging & Communications | | | | |
| Integrated Datalogger for measurement value and alarms Integrated Datalogger for fixed rate Flow logging Integrated Datalogger for variable rate Flow logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification Fump Run-on Functionality Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection V V V | | | √ | √ | √ |
| value and alarms v | | | ✓ | ✓ | ✓ |
| Integrated Datalogger for fixed rate Flow logging Integrated Datalogger for variable rate Flow logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification MCERTS Class 2 Certification Pump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | | ✓ | ✓ | ✓ |
| Integrated Datalogger for variable rate Flow logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification Pump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | | | | |
| logging triggered by changes in flow condition Daily data logging for maximum, minimum & average flow, daily totalized volume, & minimum & maximum temperature High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification MCERTS Class 2 Certification Fump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | | | √ | ✓ |
| & average flow, daily totalized volume, & minimum & maximum temperature Flow Monitoring High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification MCERTS Class 2 Certification Fump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | logging triggered by changes in flow | | | ✓ |
| High Accuracy Open Channel Flow measurement 9 digit Daily and Running Flow Totalizers ✓ ✓ ✓ ✓ ✓ ✓ High and Low flowrate alarms ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ | | & average flow, daily totalized volume, & | | √ | √ |
| High and Low flowrate alarms External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification Fump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | Flow Monitoring | High Accuracy Open Channel Flow | | | ✓ |
| External Totalizer and Sampler Control MCERTS Class 1 Certification MCERTS Class 2 Certification Fump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Fixed duty and Service Ratio pump Submergence Detection Discrete Input Pump Interlocks | | 9 digit Daily and Running Flow Totalizers | | ✓ | ✓ |
| MCERTS Class 1 Certification MCERTS Class 2 Certification Fump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | High and Low flowrate alarms | | ✓ | ✓ |
| Pump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | External Totalizer and Sampler Control | | ✓ | ✓ |
| Pump Control Energy Saving Algorithms for Pump control Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | MCERTS Class 1 Certification | | | ✓ |
| Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | | | ✓ | |
| Wall Cling Reduction Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | Pump Control | Energy Saving Algorithms for Pump control | | ✓ | ✓ |
| Pump Run-on Functionality Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | | ✓ | ✓ | ✓ |
| Pump start and power resumption delays Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | | | ✓ | ✓ |
| Alternate duty pump routines Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | | | √ | √ |
| Fixed duty and Service Ratio pump routines Pumped Volume Totalizer Submergence Detection Discrete Input Pump Interlocks | | | √ | | |
| Submergence Detection ✓ ✓ Discrete Input Pump Interlocks ✓ ✓ | | Fixed duty and Service Ratio pump | | | |
| Submergence Detection ✓ ✓ Discrete Input Pump Interlocks ✓ ✓ | | Pumped Volume Totalizer | | √ | √ |
| Discrete Input Pump Interlocks ✓ ✓ | | | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ |
| | | Time to Spill calculation | | √ | √ |