Catálogo

Tratamento de ÁGUAS

Analisadores Clorómetros Medição de caudal
Níveis Válvulas Instrumentação complementar
Analisadores de gases

CONTIMETRA
Lisboa

Rua do Proletariado 15-B - 2795-648 CARNAXIDE
tel. 214 203 900 fax 214 203 901 e-mail industria@contimetra.com
www.contimetra.com

SISTIMETRA
Porto

Rua Particular de São Gemil 85 - 4425-164 ÁGUAS SANTAS MAIA
tel. 229 774 470 fax 229 724 551 e-mail industria@sistimetra.pt
www.sistimetra.pt

AZTEC™

On-line Water Quality Instruments Series 1000

The Instrumentation Division of Severn Trent Services, based in Didcot, UK, specialises in the design, manufacture and support of a wide range of Water Quality Monitors supplied to the UK Water Utilities, to industrial water users, and to the export market.

Over the last 20 years the Aztec products have built up a reference base of over 1000 installations of on-line Water Quality Monitors operating across a variety of clean water, waste water and trade effluent applications in the UK alone.

WATER QUALITY MONITORS

The AZTEC range is based on colorimetric, ion selective electrode and optical density methods of measurement, providing a comprehensive range of solutions to meet the most stringent applications.

COLORIMETRIC

Our SERIES 1000 monitor range can be configured to any of the following parameters:

- Iron
- Aluminium
- Manganese
- Manganese Low Range
- Phosphate
- Ammonia
- Colour
- Colour/Turbidity
- Nitrite
- Silica

ION SELECTIVE ELECTRODE

Our SERIES 1000 monitor range can be configured to any of the following parameters:

- Ammonia
- Fluoride
- Nitrate

REAGENTS, BUFFERS AND STANDARDS

We produce high quality reagents, buffers and calibration solutions for all the leading makes of water quality analysers.

We supply to all the major Water Utilities and an increasing number of industries where this type of instrumentation is used.

AUTOMATIC COAGULATION CONTROL SYSTEMS

With over 50 installations in the UK, Aztec has established a reputation of being a world leader in automatic coagulation control systems. The 'Aztec AC' system is based on a series of measurements throughout the water treatment process combined with a control algorithm (a result of 25 years practical on-site research and development).

The AC System range can be applied to any surface water to optimise coagulant dose rate, flocculation properties, clarification performance, filterability and filter run times, offering the potential for substantial improvements in plant performance and costs.

Severn Trent Services
8 Hawksworth
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SEVERN TRENT SERVICES

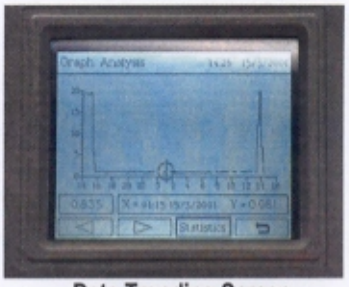
Visit us at www.severntrentservices.com

CB-28-10-2003

Aztec Al1000 on-line

Aluminium Monitor

Part of the Aztec S1000 range of colorimetric water quality monitors, the AL1000 provides highly accurate, robust and low maintenance performance on surface and treated waters, municipal waste and industrial waste waters.



Data Trending Screen

Operator Help Screen

Following on from the Aztec RC100 monitor, which became the benchmark Aluminium monitor in the UK, the Al1000 combines the latest generation optical measurement and fluid handling system with a highly powerful, four button user interface.

A single piston pump provides all the sample and chemical fluid handling for measurement, mixing and disposal. This is stepper motor controlled for repeatability and precision. This 'motorised syringe' approach has the added benefit of cleaning the optical cell on every movement of the piston. This is particularly important when measuring surface raw waters and flotation waters where optical contamination can be a real issue without stringent cleaning.

The performance of the Al1000 on surface and floated water samples is further enhanced by the initiation of an acid digestion cycle. An acid reagent is introduced with the sample and heated in the temperature controlled optical measurement cell. This helps to hydrolyse any aluminium which is in suspension. This is particularly critical on floated waters containing floc particles, providing a much more accurate measurement whilst minimising the possibility of floc entrapment.

On multi-stream applications, the monitor rinses the optical cell twice with the next sample before measurement. This is critical in ensuring against cross contamination where there are great differences in the aluminium levels present in the samples being measured.

Key Features Include:

- Low reagent consumption – less than 3mls per determination. Rate of determination can be selected from 6 to 1 per hour.
- 12 - 18 month maintenance interval, no servicing required whatsoever during this period.
- Minimised ownership costs as a result of low reagent, spares and maintenance requirements.
- User interface screens, including comprehensive data trending, fault diagnostics etc.
- Temperature controlled LED optical measurement system, highly stable, accurate and virtually no consumable parts.
- Interchangeable between up to 8 different parameters
- Remote communications facility

SEVERN TRENT SERVICES

Visit us at www.severntrentservices.com

CB-15-09-2003

Specification

AZTEC AI1000 on-line
Aluminium Monitor

General

Quality Standards:
ISO 9001 Manufacturing Company

Compliance:
Fully CE compliant

Instrument Range:
Auto Ranging 0-2mg/l

Accuracy:
± 5 to ± 100 µg/l through range

Resolution:
4 digit floating point display

Method:
Pyrocatechol Violet

Ambient Temperature:
0°C – 40°C (32°F- 104°F)

Automatic-Calibration:
Two point, automatic calibration, with optional manual initiation. Selectable from 4 times/day to once/week.

Data Logging:
28 days (4 hourly), 7 days (hourly) or 24 hours (5 minutes).

Number of Streams:
Single or up to 3 streams. Sequencing is programmable.

Self Cleaning:
Programmable automatic acid/alkali/biocide rinsing facility. Piston cleaned optics on each measurement.

Languages:
UK English, US English, Spanish and Italian. For other languages, consult Severn Trent Services.

Sample Data

Sample Flow:
Continuous, 20-500 ml/min

Sample Temperature:
0°C – 40°C (32°F -104°F)

Sample Pressure:
5 psi maximum

Sample Quality:
Can operate directly on surface raw waters and final effluents without filtration. A sample settlement pot is recommended where large particles are present in the supply.

Electrical

Power Requirements:
Automatic power recognition from 85 – 264 Vac, 47-63 Hz, single phase.

Power Consumption:
85 Watts.

Output Signal:
Per stream - Single 4-20mA DC, 0-20mA DC, or 0-10mA DC isolated into 1000 ohms maximum. Optional extra output signals are available.

Relay Contacts:
Six. Each configurable for high, low, attention or fail status. Includes settings for hysteresis, delay and action. Alarm contacts rated 5A @ 240 VAC, resistive load. Optional extra relays are available.

Digital Output:
RS232 capability or serial printer.
Optional remote download of graphed data to PC using Companion CD supplied with the monitor.

Remote Communications (Optional):
Wireless modem and digital network communications enabling remote interrogation and control of all software menus. Uses RS232 port in operation.

Instrument Data

Electronics Enclosure:
NEMA 4X / IP65 Industrial ABS enclosure

Sample Connections:
Inlet: 6mm O.D pushfit x ¼" BSP elbow
Overflow: 10mm O.D pushfit x ⅜" BSP elbow
(imperial adaptors available)

Shipping Weight:
21 kg (46 lbs.)

Dimensions:
485 mm x 660 mm x 205 mm (19" x 26" x 8")

SEVERN TRENT SERVICES

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8 Hawksworth,
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Web: www.severntrentservices.com

Severn Trent Water Purification Ltd
Registered in England & Wales Registration No. 1254271
Registered Office: 2297 Coventry Road, Birmingham B26 3PU

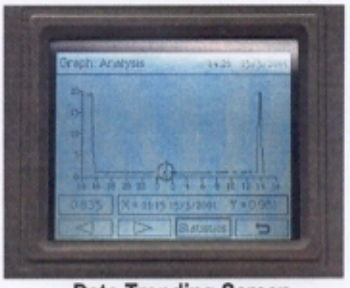
The Aztec Series 1000 range includes monitors for Aluminium, Iron, Manganese, Phosphate, Colour, Ammonia, Nitrate, Nitrite, Fluoride & Silica

CB-15-09-2003

Aztec Am1000 on-line

Ammonia Monitor

Part of the Aztec S1000 range of colorimetric water quality monitors, the Am1000 provides highly accurate, robust and low maintenance performance on surface and treated waters, municipal waste and industrial waste waters



Data Trending Screen

Operator Help Screen

The Aztec Am1000 combines the latest generation optical measurement and fluid handling systems with a highly powerful, four button user interface.

A single piston pump provides all the sample and chemical fluid handling for measurement, mixing and disposal. This is stepper motor controlled for repeatability and precision. This 'motorised syringe' approach has the added benefit of cleaning the optical cell on every movement of the piston.

This is particularly important when measuring raw surface waters and waste waters where optical contamination can be a real issue without stringent automatic cleaning.

The salicylate method for the colorimetric measurement of ammonia used by the Am1000 is temperature critical.

The Am1000 overcomes this by heating and temperature controlling the optical measurement cell at all times. This significantly enhances the accuracy of the measurement when the ambient temperature is low, ensuring the readings do not depend on the weather or season.

The performance of the Am1000 on waste water and river water samples in particular, is further enhanced by initiating a menu selectable chemical rinse. This draws a biocide solution into the optical measurement cell, pumps the solution through the sample line and then re-introduces it before pumping to waste. This significantly reduces biological contamination throughout the fluid handling system, often eliminating the need for sample filtration.

The Am1000 is designed to provide very high levels of accuracy at low level measurements. Whilst not having the high end measurement range of the ion selective electrode method, the colorimetric method is significantly more accurate and stable at sub ppm levels. This makes it ideal in particular, for most W.T.W intake protection applications.

Key Features Include:

- Low reagent consumption – less than 3mls per determination. Rate of determination can be selected from 4 to 1 per hour.
- 12 - 18 month maintenance interval, no servicing required whatsoever during this period.
- Minimised ownership costs as a result of low reagent, spares and maintenance requirements.
- User interface screens, including comprehensive data trending, fault diagnostics etc.
- Temperature controlled LED optical measurement system, highly stable, accurate and virtually no consumable parts.
- Interchangeable between up to 8 different parameters
- Remote communications facility

Visit us at www.severntrentservices.com

SEVERN TRENT SERVICES

Specification

AZTEC Am1000 on-line
Ammonia Monitor

General

Quality Standards:
ISO 9001 Manufacturing Company

Compliance:
Fully CE compliant

Instrument Range:
Auto Ranging 0-6 mg/l as NH_3 (0-5mg/l as NH_3-N)

Accuracy:
± 2 to ± 100 µg/l through range

Resolution:
4 digit floating point display

Method:
Salicylate

Ambient Temperature:
0°C – 40°C (32°F- 104°F)

Automatic-Calibration:
Two point, automatic calibration, with optional manual initiation. Selectable from 4 times/day to once/week.

Data Logging:
28 days (4 hourly), 7 days (hourly) or 24 hours (5 minutes).

Number of Streams:
Single or up to 3 streams. Sequencing is programmable.

Self Cleaning:
Programmable automatic acid/alkali/biocide rinsing facility. Piston cleaned optics on each measurement.

Languages:
UK English, US English, Spanish and Italian. For other languages, consult Severn Trent Services.

Sample Data

Sample Flow:
Continuous, 20-500 ml/min

Sample Temperature:
0°C – 40°C (32°F -104°F)

Sample Pressure:
5 psi maximum

Sample Quality:
Can operate directly on surface raw waters and final effluents without filtration. A sample settlement pot is recommended where large particles are present in the supply.

Electrical

Power Requirements:
Automatic power recognition from 85 – 264 Vac, 47-63 Hz, single phase.

Power Consumption:
85 Watts.

Output Signal:
Per stream - Single 4-20mA DC, 0-20mA DC, or 0-10mA DC isolated into 1000 ohms maximum. Optional extra output signals are available.

Relay Contacts:
Six. Each configurable for high, low, attention or fail status. Includes settings for hysteresis, delay and action. Alarm contacts rated 5A @ 240 VAC, resistive load. Optional extra relays are available.

Digital Output:
RS232 capability or serial printer.
Optional remote download of graphed data to PC using Companion CD supplied with the monitor.

Remote Communications (Optional):
Wireless modem and digital network communications enabling remote interrogation and control of all software menus. Uses RS232 port in operation.

Instrument Data

Electronics Enclosure:
NEMA 4X / IP65 Industrial ABS enclosure

Sample Connections:
Inlet: 6mm O.D pushfit x ¼" BSP elbow
Overflow: 10mm O.D pushfit x ⅜" BSP elbow
(imperial adaptors available)

Shipping Weight:
21 kg (46 lbs.)

Dimensions:
485 mm x 660 mm x 205 mm (19" x 26" x 8")

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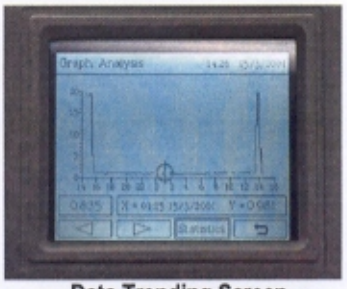
CB-15-09-2003

Aztec C1000 on-line

Colour Monitor

Part of the Aztec S1000 range of water quality monitors, the C1000 provides highly accurate, robust and low maintenance performance on surface and treated waters, municipal and industrial waste waters.



Data Trending Screen

Operator Help Screen

The Aztec C1000 combines the latest generation optical measurement and fluid handling systems with a highly powerful, four button user interface.

A single piston pump provides the fluid handling for routine measurement, two point calibration and disposal. This is stepper motor controlled for repeatability and precision and has the added benefit of cleaning the optical cell on every movement of the piston.

The C1000 has been robustly designed to operate accurately and reliably without the need for manual cleaning and routine maintenance. It is a batch measurement system providing up to 12 determinations per hour.

Raw surface waters, floated waters and manganese rich waters are particularly challenging for colour monitors given that no reagents are involved in the actual measurement, often leading to rapid fouling of the optical system.

In such applications the C1000 overcomes this, partly by the piston wiping action on the optical cell, but also by enabling an acid or alkali rinse function to be initiated. This can be programmed to a range of frequencies, drawing a solution (customised to the sample properties) into the optical measurement cell, pumping the solution through the sample line and then re-introducing it before pumping to waste.

This feature maintains the cleanliness of the optical measurement cell, obviating the need for sample filtration in such applications.

Where true colour measurement is required, the sample is filtered through as 0.45 micron membrane filter to remove all suspended matter. This is available as an optional extra.

Key Features Include:

- 12 - 18 month maintenance interval, no servicing or spares required whatsoever during this period.
- Minimised ownership costs as a result of spares and maintenance requirements.
- User interface screens, including comprehensive data trending, fault diagnostics etc.
- Intensity controlled LED optical measurement system, highly stable and accurate.

SEVERN TRENT SERVICES

Visit us at www.severntrentservices.com

CB-15-09-2003

Specification

AZTEC C1000 on-line
Colour Monitor

General

Quality Standards:
ISO 9001 Manufacturing Company

Compliance:
Fully CE compliant

Instrument Range:
Auto Ranging 0-500° Hazen Colour

Accuracy:
+/- 1° Hazen to +/- 20° Hazen through range

Sampling:
1-12 samples per hour

Resolution:
4 digit floating point display

Ambient Temperature:
0°C – 40°C (32°F- 104°F)

Automatic-Calibration:
Colour—Two point, automatic calibration, with optional manual initiation. Selectable from 4 times/day to once/ week.

Data Logging:
28 days (4 hourly), 7 days (hourly) or 24 hours (5 minutes).

Number of Streams:
Single or up to 3 streams. Sequencing is programmable.

Self Cleaning:
Programmable automatic acid/alkali/biocide rinsing facility. Piston cleaned optics on each measurement.

Sample Data

Sample Flow:
Continuous, 20-500 ml/min

Sample Temperature:
0°C – 40°C (32°F -104°F)

Sample Pressure:
5 psi maximum

Sample Quality:
Can operate directly on surface raw waters and final effluents without filtration. A sample settlement pot is recommended where large particles are present in the supply.

Electrical

Power Requirements:
Automatic power recognition from 85 – 264 Vac, 47-63 Hz, single phase.

Power Consumption:
85 Watts.

Output Signal:
Per stream - Single 4-20mA DC, 0-20mA DC, or 0-10mA DC isolated into 1000 ohms maximum. Optional extra output signals are available.

Relay Contacts:
Six. Each configurable for high, low, attention or fail status. Includes settings for hysteresis, delay and action. Alarm contacts rated 5A @ 240 VAC, resistive load. Optional extra relays are available.

Digital Output:
RS232 capability or serial printer.
Optional remote download of graphed data to PC using Companion CD supplied with the monitor.

Instrument Data

Electronics Enclosure:
NEMA 4X / IP65 Industrial ABS enclosure

Sample Connections:
Inlet: 6mm O.D pushfit x ¼" BSP elbow
Overflow: 10mm O.D pushfit x ⅜" BSP elbow
(imperial adaptors available)

Shipping Weight:
21 kg (46 lbs.)

Dimensions:
485 mm x 660 mm x 205 mm (19" x 26" x 8")

SEVERN TRENT SERVICES

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8 Hawksworth,
Southmead Industrial Park
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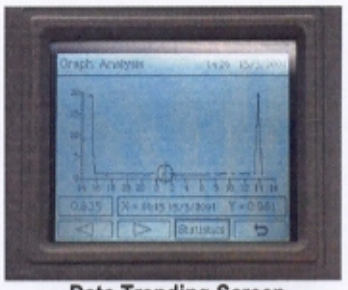
CB-15-09-2003

Aztec CT1000 on-line

Colour and Turbidity Monitor

Part of the Aztec S1000 range of water quality monitors, the CT1000 provides highly accurate, robust and low maintenance performance on surface, treated and industrial process waters.



Data Trending Screen

Operator Help Screen

The Aztec CT1000 combines the latest generation optical measurement and fluid handling systems with a highly powerful, four button user interface.

A single piston pump provides the fluid handling for routine measurement, two point calibration and disposal. This is stepper motor controlled for repeatability and precision and has the added benefit of cleaning the optical cell on every movement of the piston.

The CT1000 has been robustly designed to operate accurately and reliably without the need for manual cleaning and routine maintenance. It is a batch measurement system providing up to 12 determinations per hour.

Used for both process monitoring and as part of the Aztec AC1000 coagulation control system, the CT1000 uses a single detector and two LED light sources, one at 180° for the colour reading and one at 90° for the nephelometric turbidity reading.

When used as part of the AC1000 system, a strip paper filter is used on the raw water sample. The filtered sample is then measured and the colour reading is corrected for residual turbidity to provide an active colloidal colour reading. In all other applications, independent colour and turbidity readings are available on up to three streams of measurement.

Calibration of the turbidity measurement is simply performed by introducing a turbidity standard and selecting the turbidity calibration function.

A chemical rinse can be automatically activated, enabling the CT1000 to measure unfiltered surface and flocculated waters with high fouling properties, eliminating the need for manual cleaning of the optics and maintaining consistent accuracy.

Key Features Include:

- Can be upgraded to a full automatic coagulation control system.
- 12 - 18 month maintenance interval, no servicing or spares required whatsoever during this period.
- Minimised ownership costs as a result of low spares and maintenance requirements.
- User interface screens, including comprehensive data trending, fault diagnostics etc.
- Intensity controlled LED optical measurement system, highly stable and accurate.

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CB-15-09-2003

Specification

AZTEC CT1000 on-line
Colour & Turbidity Monitor

General

Quality Standards:
ISO 9001 Manufacturing Company

Compliance:
Fully CE compliant

Instrument Range:
Auto Ranging 0-500° Hazen Colour
Auto Ranging 0-100 NTU Turbidity

Accuracy:
+/- 1° Hazen to +/- 20° Hazen through range
+/- 0.2 NTU to +/- 5 NTU through range

Samping:
1-12 samples per hour

Resolution:
4 digit floating point display

Ambient Temperature:
0°C – 40°C (32°F- 104°F)

Automatic-Calibration:
Colour—Two point, automatic calibration, with optional manual initiation. Selectable from 4 times/day to once/ week.
Turbidity—Manual by introducing formazin standard

Data Logging:
28 days (4 hourly), 7 days (hourly) or 24 hours (5 minutes).

Number of Streams:
Single or up to 3 streams. Sequencing is programmable.

Self Cleaning:
Programmable automatic acid/alkali/biocide rinsing facility. Piston cleaned optics on each measurement.

Sample Data

Sample Flow:
Continuous, 20-500 ml/min

Sample Temperature:
0°C – 40°C (32°F -104°F)

Sample Pressure:
5 psi maximum

Sample Quality:
Can operate directly on surface raw waters and final effluents without filtration. A sample settlement pot is recommended where large particles are present in the supply.

Electrical

Power Requirements:
Automatic power recognition from 85 – 264 Vac, 47-63 Hz, single phase.

Power Consumption:
85 Watts.

Output Signal:
Per stream - Single 4-20mA DC, 0-20mA DC, or 0-10mA DC isolated into 1000 ohms maximum. Optional extra output signals are available.

Relay Contacts:
Six. Each configurable for high, low, attention or fail status. Includes settings for hysteresis, delay and action. Alarm contacts rated 5A @ 240 VAC, resistive load. Optional extra relays are available.

Digital Output:
RS232 capability or serial printer.
Optional remote download of graphed data to PC using Companion CD supplied with the monitor.

Instrument Data

Electronics Enclosure:
NEMA 4X / IP65 Industrial ABS enclosure

Sample Connections:
Inlet: 6mm O.D pushfit x ¼" BSP elbow
Overflow: 10mm O.D pushfit x ⅜" BSP elbow
(imperial adaptors available)

Shipping Weight:
21 kg (46 lbs.)

Dimensions:
485 mm x 660 mm x 205 mm (19" x 26" x 8")

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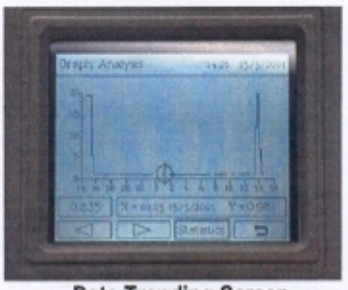
CB-15-09-2003

Aztec Fe1000 on-line

Iron Monitor

Part of the Aztec S1000 range of colorimetric water quality monitors, the Fe1000 provides highly accurate, robust and low maintenance performance on surface and treated waters, municipal waste and industrial waste waters.



Data Trending Screen

Operator Help Screen

Following on from the Aztec RC100 monitor, which became the benchmark iron monitor in the UK, the Fe1000 combines the latest generation optical measurement and fluid handling system with a highly powerful, four button user interface.

A single piston pump provides all the sample and chemical fluid handling for measurement, mixing and disposal. This is stepper motor controlled for repeatability and precision. This 'motorised syringe' approach has the added benefit of cleaning the optical cell on every movement of the piston. This is particularly important when measuring surface raw waters and flotation waters where optical contamination can be a real issue without stringent automatic cleaning.

The performance of the Fe1000 on surface and floated water samples is further enhanced by the initiation of an acid digestion cycle. An acid reagent is introduced with the sample and heated in the temperature controlled optical measurement cell. This helps to hydrolyse any iron which is in suspension. This is particularly critical on floated waters containing floc particles, providing a much more accurate measurement whilst minimising the possibility of floc entrapment.

On multi-stream applications, the monitor rinses the optical cell twice with the next sample before measurement. This is critical in ensuring against cross contamination where there are great differences in the iron levels present in the samples being measured.

Key Features Include:

- Low reagent consumption – less than 3mls per determination. Rate of determination can be selected from 6 to 1 per hour.
- 12 - 18 month maintenance interval, no servicing required whatsoever during this period.
- Minimised ownership costs as a result of low reagent, spares and maintenance requirements.
- User interface screens, including comprehensive data trending, fault diagnostics etc.
- Temperature controlled LED optical measurement system, highly stable, accurate and virtually no consumable parts.
- Interchangeable between up to 8 different parameters
- Remote communications facility

SEVERN TRENT SERVICES

Visit us at www.severntrentservices.com

CB-15-09-2003

Specification

AZTEC Fe1000 on-line
Iron Monitor

General

Quality Standards:
ISO 9001 Manufacturing Company

Compliance:
Fully CE compliant

Instrument Range:
Auto Ranging 0-10mg/l

Accuracy:
± 5 to ± 200 µg/l through range

Resolution:
4 digit floating point display

Method:
TPTZ

Ambient Temperature:
0°C – 60°C (32°F- 140°F)

Automatic-Calibration:
Two point, automatic calibration, with optional manual initiation. Selectable from 4 times/day to once/week.

Data Logging:
28 days (4 hourly), 7 days (hourly) or 24 hours (5 minutes).

Number of Streams:
Single or up to 3 streams. Sequencing is programmable.

Self Cleaning:
Programmable automatic acid/alkali/biocide rinsing facility. Piston cleaned optics on each measurement.

Languages:
UK English, US English, Spanish and Italian. For other languages, consult Severn Trent Services.

Sample Data

Sample Flow:
Continuous, 20-500 ml/min

Sample Temperature:
0°C – 40°C (32°F -104°F)

Sample Pressure:
5 psi maximum

Sample Quality:
Can operate directly on surface raw waters and final effluents without filtration. A sample settlement pot is recommended where large particles are present in the supply.

Electrical

Power Requirements:
Automatic power recognition from 85 – 264 Vac, 47-63 Hz, single phase.

Power Consumption:
85 Watts.

Output Signal:
Per stream - Single 4-20mA DC, 0-20mA DC, or 0-10mA DC isolated into 1000 ohms maximum. Optional extra output signals are available.

Relay Contacts:
Six. Each configurable for high, low, attention or fail status. Includes settings for hysteresis, delay and action. Alarm contacts rated 5A @ 240 VAC, resistive load. Optional extra relays are available.

Digital Output:
RS232 capability or serial printer.
Optional remote download of graphed data to PC using Companion CD supplied with the monitor.

Remote Communications (Optional):
Wireless modem and digital network communications enabling remote interrogation and control of all software menus. Uses RS232 port in operation.

Instrument Data

Electronics Enclosure:
NEMA 4X / IP65 Industrial ABS enclosure

Sample Connections:
Inlet: 6mm O.D pushfit x ¼" BSP elbow
Overflow: 10mm O.D pushfit x ⅜" BSP elbow
(imperial adaptors available)

Shipping Weight:
21 kg (46 lbs.)

Dimensions:
485 mm x 660 mm x 205 mm (19" x 26" x 8")

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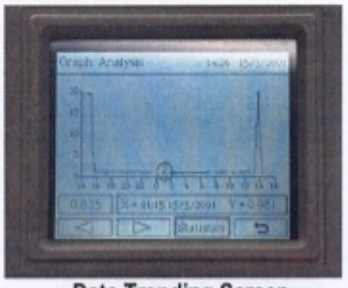
Severn Trent Water Purification Ltd
Registered in England & Wales Registration No. 1254271
Registered Office: 2297 Coventry Road, Birmingham B26 3PU

The Aztec Series 1000 range includes monitors for Aluminium, Iron, Manganese, Phosphate, Colour, Ammonia, Nitrate, Nitrite, Fluoride & Silica

Aztec Mn1000 on-line

Manganese Monitor

Part of the Aztec S1000 range of water quality monitors, the Mn1000 provides highly accurate, robust and low maintenance performance on ground and surface waters, treated waters, and industrial waste waters.



Data Trending Screen

Operator Help Screen

Following on from the Aztec M100 monitor, the Mn1000 combines the latest generation optical measurement and fluid handling system with a highly powerful, four button user interface.

A single piston pump provides all the sample and chemical fluid handling for measurement, mixing and disposal. This is stepper motor controlled for repeatability and precision. This 'motorised syringe' approach has the added benefit of cleaning the optical cell on every movement of the piston. This is particularly important when measuring surface raw waters and flotation waters where optical contamination can be a real issue without stringent automatic cleaning.

The performance of the Mn1000 on surface and final water samples is further enhanced by the addition of an iron suppresser. A complexing reagent is introduced after the sample and heated in the temperature controlled optical measurement cell. This helps to remove any iron which can interfere with manganese determinations. This is particularly critical in waters where the allowable concentration is low and absolute accuracy is required.

On multi-stream applications, the monitor rinses the optical cell twice with the next sample before measurement. This is critical in ensuring against cross contamination where there are great differences in the manganese levels present in the samples being measured.

Key Features Include:

- Low reagent consumption – less than 3mls per determination. Rate of determination can be selected from 6 to 1 per hour.
- 12 - 18 month maintenance interval, no servicing required whatsoever during this period.
- Minimised ownership costs as a result of low reagent, spares and maintenance requirements.
- User interface screens, including comprehensive data trending, fault diagnostics etc.
- Temperature controlled LED optical measurement system, highly stable, accurate and virtually no consumable parts.
- Interchangeable between up to 8 different parameters
- Remote communications facility

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CB-15-09-2003

Specification

AZTEC Mn1000 on-line
Manganese Monitor

General

Quality Standards:
ISO 9001 Manufacturing Company

Compliance:
Fully CE compliant

Instrument Range:
Auto Ranging 0-5000 µg/l

Accuracy:
± 10 to ± 200 µg/l through range

Resolution:
4 digit floating point display

Method:
Formaldoxime

Ambient Temperature:
0°C – 40°C (32°F- 104°F)

Automatic-Calibration:
Two point, automatic calibration, with optional manual initiation. Selectable from 4 times/day to once/week.

Data Logging:
28 days (4 hourly), 7 days (hourly) or 24 hours (5 minutes).

Number of Streams:
Single or up to 3 streams. Sequencing is programmable.

Self Cleaning:
Programmable automatic acid/alkali/biocide rinsing facility. Piston cleaned optics on each measurement.

Languages:
UK English, US English, Spanish and Italian. For other languages, consult Severn Trent Services.

Sample Data

Sample Flow:
Continuous, 20-500 ml/min

Sample Temperature:
0°C – 40°C (32°F -104°F)

Sample Pressure:
5 psi maximum

Sample Quality:
Can operate directly on surface raw waters and final effluents without filtration. A sample settlement pot is recommended where large particles are present in the supply.

Electrical

Power Requirements:
Automatic power recognition from 85 – 264 Vac, 47-63 Hz, single phase.

Power Consumption:
85 Watts.

Output Signal:
Per stream - Single 4-20mA DC, 0-20mA DC, or 0-10mA DC isolated into 1000 ohms maximum. Optional extra output signals are available.

Relay Contacts:
Six. Each configurable for high, low, attention or fail status. Includes settings for hysteresis, delay and action. Alarm contacts rated 5A @ 240 VAC, resistive load. Optional extra relays are available.

Digital Output:
RS232 capability or serial printer.
Optional remote download of graphed data to PC using Companion CD supplied with the monitor.

Remote Communications (Optional):
Wireless modem and digital network communications enabling remote interrogation and control of all software menus. Uses RS232 port in operation.

Instrument Data

Electronics Enclosure:
NEMA 4X / IP65 Industrial ABS enclosure

Sample Connections:
Inlet: 6mm O.D pushfit x ¼" BSP elbow
Overflow: 10mm O.D pushfit x ⅜" BSP elbow
(imperial adaptors available)

Shipping Weight:
21 kg (46 lbs.)

Dimensions:
485 mm x 660 mm x 205 mm (19" x 26" x 8")

SEVERN TRENT SERVICES

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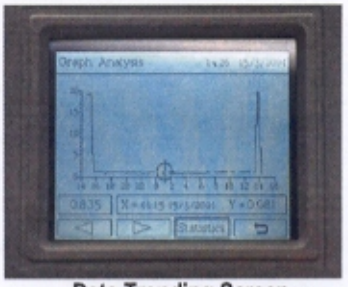
Aztec Mn1000 on-line

Manganese Monitor (Low Range)

Part of the Aztec S1000 range of colorimetric water quality monitors, the Mn1000 (Low Range) provides highly accurate, robust and low maintenance performance on ground and surface waters, treated waters, and industrial waste waters.



Data Trending Screen

Operator Help Screen

The Mn1000 (Low Range) instrument combines the latest generation optical measurement and fluid handling system with a highly powerful, four button user interface.

A single piston pump provides all the sample and chemical fluid handling for measurement, mixing and disposal. This is stepper motor controlled for repeatability and precision. This 'motorised syringe' approach has the added benefit of cleaning the optical cell on every movement of the piston. This is particularly important when measuring surface raw waters and flotation waters where optical contamination can be a real issue without stringent automatic cleaning.

The Mn1000 (Low Range) has been developed for applications where the measurement of ultra low level manganese concentrations are critical. Using an adaptation of the proven 'Leucomalachite Green' chemistry the instrument offers maximum sensitivity in the low ppb range whilst still maintaining a low cost of ownership.

On multi-stream applications, the monitor rinses the optical cell twice with the next sample before measurement. This is critical in ensuring against cross contamination where there are great differences in the manganese levels present in the samples being measured.

Key Features Include:

- Low reagent consumption – less than 3mls per determination. Rate of determination can be selected from 6 to 1 per hour.
- 12 - 18 month maintenance interval, no servicing required whatsoever during this period.
- Minimised ownership costs as a result of low reagent, spares and maintenance requirements.
- User interface screens, including comprehensive data trending, fault diagnostics etc.
- Temperature controlled LED optical measurement system, highly stable, accurate and virtually no consumable parts.
- Interchangeable between up to 8 different parameters
- Remote communications facility

SEVERN TRENT SERVICES

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CB-15-09-2003

Specification

AZTEC Mn1000 on-line
Manganese Monitor (Low Range)

General

Quality Standards:
ISO 9001 Manufacturing Company

Compliance:
Fully CE compliant

Instrument Range:
Auto Ranging 0-500 µg/l

Accuracy:
± 2 to ± 50 µg/l through range

Resolution:
4 digit floating point display

Method:
Leucomalachite Green

Ambient Temperature:
0°C – 40°C (32°F- 104°F)

Automatic-Calibration:
Two point, automatic calibration, with optional manual initiation. Selectable from 4 times/day to once/week.

Data Logging:
28 days (4 hourly), 7 days (hourly) or 24 hours (5 minutes).

Number of Streams:
Single or up to 3 streams. Sequencing is programmable.

Self Cleaning:
Programmable automatic acid/alkali/biocide rinsing facility. Piston cleaned optics on each measurement.

Languages:
UK English, US English, Spanish and Italian. For other languages, consult Severn Trent Services.

Sample Data

Sample Flow:
Continuous, 20-500 ml/min

Sample Temperature:
0°C – 40°C (32°F -104°F)

Sample Pressure:
5 psi maximum

Sample Quality:
Can operate directly on surface raw waters and final effluents without filtration. A sample settlement pot is recommended where large particles are present in the supply.

Electrical

Power Requirements:
Automatic power recognition from 85 – 264 Vac, 47-63 Hz, single phase.

Power Consumption:
85 Watts.

Output Signal:
Per stream - Single 4-20mA DC, 0-20mA DC, or 0-10mA DC isolated into 1000 ohms maximum. Optional extra output signals are available.

Relay Contacts:
Six. Each configurable for high, low, attention or fail status. Includes settings for hysteresis, delay and action. Alarm contacts rated 5A @ 240 VAC, resistive load. Optional extra relays are available.

Digital Output:
RS232 capability or serial printer.
Optional remote download of graphed data to PC using Companion CD supplied with the monitor.

Remote Communications (Optional):
Wireless modem and digital network communications enabling remote interrogation and control of all software menus. Uses RS232 port in operation.

Instrument Data

Electronics Enclosure:
NEMA 4X / IP65 Industrial ABS enclosure

Sample Connections:
Inlet: 6mm O.D pushfit x ¼" BSP elbow
Overflow: 10mm O.D pushfit x ⅜" BSP elbow
(imperial adaptors available)

Shipping Weight:
21 kg (46 lbs.)

Dimensions:
485 mm x 660 mm x 205 mm (19" x 26" x 8")

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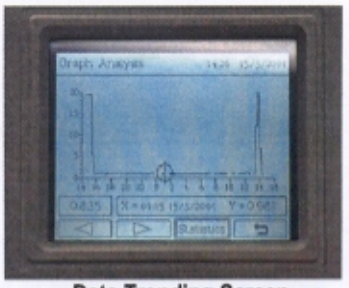
Aztec Nt1000 on-line

Nitrite Monitor

Part of the Aztec S1000 range of water quality monitors, the Nt1000 provides highly accurate, robust and low maintenance performance on treated, waste and industrial process waters.



Data Trending Screen

Operator Help Screen

The Aztec Nt1000 combines the latest generation optical measurement and fluid handling systems with a highly powerful, four button user interface.

A single piston pump provides all the sample and chemical fluid handling for measurement, mixing and disposal. This is stepper motor controlled for repeatability and precision. This 'motorised syringe' approach has the added benefit of cleaning the optical cell on every movement of the piston.

The performance of the Nt1000 on waste water samples in particular, is further enhanced by initiating a menu selectable chemical rinse. This draws a biocide solution into the optical measurement cell, pumps the solution through the sample line and then re-introduces it before pumping to waste. This significantly reduces biological contamination throughout the fluid handling system, often eliminating the need for sample filtration.

On-line measurement of Nitrite is an emerging application in the Utilities and Industrial sectors, used to maximise energy efficiency and process quality.

Typical applications include:

- Aerobic waste water treatment processes where ammonia is converted to Nitrite prior to Nitrate.
- Anaerobic processes due to bacterial reduction of nitrates to nitrites
- Where Nitrites are used as corrosion inhibitors in process waters and cooling towers.
- Where Nitrites are used as preservatives in the food industry.
- Aerobic processes where ammonia is converted to nitrite in large clean water storage facilities

Key Features Include:

- Low reagent consumption – less than 3mls per determination. Rate of determination can be selected from 6 to 1 per hour.
- 12 - 18 month maintenance interval, no servicing required whatsoever during this period.
- Minimised ownership costs as a result of low reagent, spares and maintenance requirements.
- User interface screens, including comprehensive data trending, fault diagnostics etc.
- Temperature controlled LED optical measurement system, highly stable, accurate and virtually no consumable parts.
- Interchangeable between up to 8 different parameters
- Remote communications facility

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