

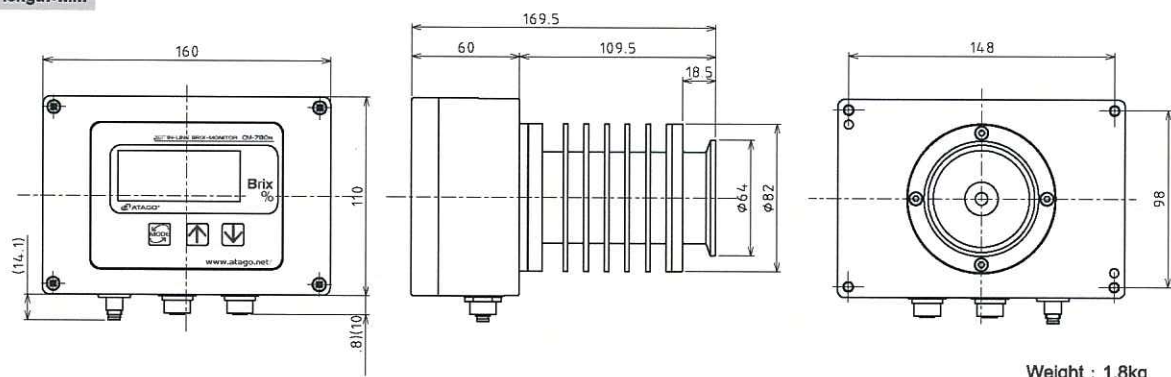
Specifications

In-Line Brix-Monitor CM-780N

Measurement scale	Brix (Automatic Temperature Compensation according to the sample liquid)	Output	Recorder output : DC 4 to 20mA RS-232C output
Measurement range	Brix 0.0 to 78.0%, temperature 0 to 100°C	Materials in contact with solution	Prism : Artificial sapphire Prism stage : SUS316
Minimum indication	Brix 0.1%	Power supply	DC24V (Power consumption 3VA)
Measurement accuracy	Brix $\pm 0.2\%$	Accessory	Power input cable (1m)
Measurement temperature	5 to 100°C (Automatic Temperature Compensation)	Maximum pressure	0.98MPa
Ambient temperature	5 to 40°C	International Protection Class	IP64 dust-tight and splash resistant
		Dimensions & weight	16×17×11cm, 1.8kg (Main unit only)

Dimensions

Unit of length: mm



EXPLANATION OF ICONS

Icons for functions, specifications and scales have been added to this catalog.

* Can be connected to a recorder * Sortie enregistreur * Verbindung mit Aufzeichnungsgreat * Collegabile a registratore esterno * Conexión para registrador * 可與記錄器連結	* RS-232C Interface * Interface RS232C pour PC * Interface RS232C * Interfaccia RS232C * Interface RS232C * RS-232C輸出	* In-line measurement * Mesure en ligne * Konstante Messverbindung * Misura in linea * Medida "in-line" * 線上測量
* Automatic Temperature Compensation * Compensation automatique de température * Automatische Temperaturkompensation * Compensazione automatica della temperatura * Compensación de automática de temperatura * 自動溫度補償	* Continuous measurement * Mesure en continu * Kontinuierliche Messung * Misura in continuo * Medida continua * 連續性測量	* High temperature samples * Résistant à la chaleur * Hitzebeständig * Resistente al calore * Muestras De Alta Temperatura * 高溫樣品用
* Calibration with water * Calibration 1 point* sur eau distillée * Kalibrierung mit Wasser * Calibrazione con acqua * Calibración con agua * 用水歸零	* Digital display * Affichage numérique * Digital Anzeige * Display digitale * Pantalla digital * 數字顯示	* AC outlet(AC100 to 240V) * Alimentation secteur(CA 100 à 240 V) * AC Ausgang (AC 100 bis 240V) * Salida AC (AC 100 240V) * Conexión a 240V CA * AC插座(AC 100至240V)

All ATAGO refractometers are designed and manufactured in Japan.

HACCP GMP GLP

ATAGO products comply with HACCP, GMP, and GLP standards.

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※Specifications and appearance are subject to change without notice.

In-Line Brix-Monitor CM-780N

Cat.No.3561

In-Line model for continuously measuring concentration (Brix) of various liquid samples!

Up to 100°C

Lightweight

Compact

Best buy



Replacement for CM-780 (Cat.No.3546)

No change to installation



Simple-to-Use Compact In-Line Model

IN-LINE BRIX-MONITOR CM-780N

Characteristics

auto control The recorder output (4 to 20mA) and the RS-232C output are incorporated to enable automatic control by interlinking with external equipment.

ATC Automatic Temperature Compensation (ATC) allows the correct concentration (Brix) to be displayed and output, even if the temperature of the sample changes.

NEW features

°C The sample temperature can be displayed by pressing key while measuring Brix (%).

CIP Safe for Clean-In-Place (CIP) processes (power source must be turned off). (Up to 130°C)

100 °C Automatic Temperature Compensation (ATC) range of 5 to 100°C, allowing for high temperature in-line samples to be measured accurately.

R eset "Default" function restores factory settings.

Applications

● Mixing, diluting and concentrating processes at food manufacturing plants.

Actual samples : fruit juice, soft drinks, coffee, cocoa, alcoholic drinks, tomato paste, sauce, ketchup, vinegar, pickled liquid, wort, condensed milk, etc.

● Fermenting processes.

Actual samples : soy sauce, alcohol, etc.

● Product changes in food production lines.

● Concentration of waste liquids.

Actual samples : waste liquid of sugar, alcohol, chemical, etc.

● Concentration of impurities mixed in hydrocarbon detergents or petrochemical detergents.

● Concentration control of diluted solutions.

Actual samples : cutting oil, lubricating oil, quenching oil, water-soluble detergent, starch, sodium hydroxide, alkaline solution, surfactant, amino acid, ammonia, ethanol, cesium chloride, sodium carbonate, cupric sulfate, citric acid, acetic acid, sodium glutamate, formalin, ethylene glycol, propylene glycol, coating solution, sizing agent, fire retardant, rust preventative, etc.

● Concentration control of various solutions.

Actual samples : liquid sugar, fructose, glucose, syrup, albumen, edible oil, vegetable oil, sugarcane/sugar beet, isopropyl alcohol, dimethylformamide, polyvinyl alcohol, hydrogen peroxide, methylene chloride, coolant and brine solutions, undiluted solution of Chinese medicine, citrus oil glycerin, polymer, gelatin, protein, lotion, etc.



Recorder output terminal (DC4 to 20mA)

RS-232C output terminal

Power (DC24V) input terminal

display section



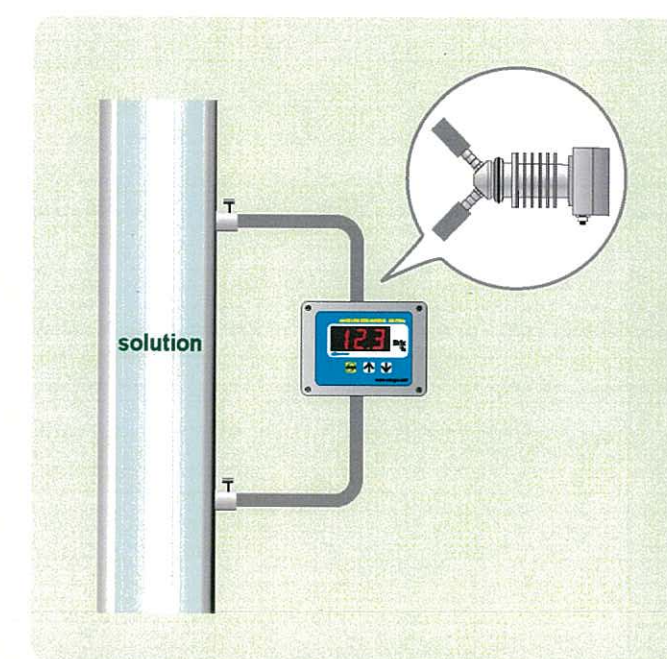
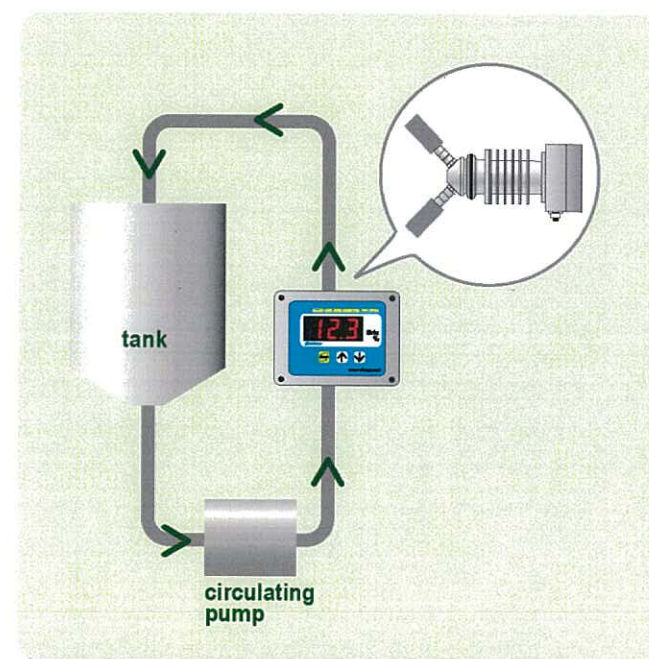
Prism

Prism stage (2S ferrule)

detection section

Example for use

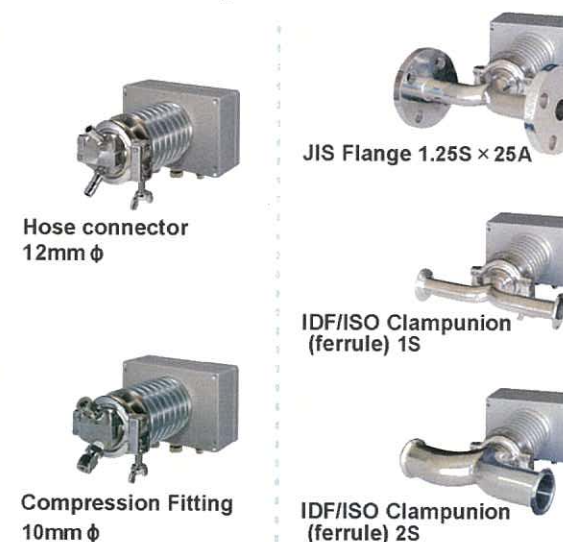
[Optional installation accessories are recommended for optimal performance.]



Installing the CM-780N directly into main piping may result in a clogged flow. Regardless of installation method, the flow of the sample solution should be in direct contact with the prism surface.

Options

Sample inlet unit



AC adapter

The AC adapter used to convert AC100 - 240V to DC24V and to supply power to the CM-780N.



AD-32 (AC100V)
AD-33 (AC110-120V)
AD-34 (AC220-240V)

Stand

Stand for mounting the CM-780N and the AC adapter.



Main unit • Optional Accessories

● IN-LINE BRIX-MONITOR CM-780N [Cat.No.3561]

- Sample inlet unit • outside diameter of hose connectors 12mm φ [RE-6645]
- Sample inlet unit • Double Bite Joint (DBJ) 10mm φ [RE-6651]
- Sample inlet unit • JIS Flange 1.25S × 25A [RE-6667]
- Sample inlet unit • JIS Flange 50A [RE-6668]
- Sample inlet unit • IDF/ISO Clamponion (ferrule) 1S [RE-6658]
- Sample inlet unit • IDF/ISO Clamponion (ferrule) 2S [RE-6659]
- Sample inlet unit • IDF/ISO Clamponion (ferrule) 1.5S [RE-6676]

- AC adapter • AD-32 [Cat.No.3527], AD-33 [Cat.No.3528], AD-34 [Cat.No.3529]
- Recorder output cable (5m) [RE-5635]
- Recorder output cable (10m) [RE-5636]
- Recorder output cable (15m) [RE-5638]
- Recorder output cable (20m) [RE-5639]
- RS-232C cable (15m) [RE-5647]
- Stand [RE-8607] (Stand for mounting the CM-780N and the AC adapter)