



Typical verification using the ICE-PIC™ Calibration/Verification Module

With Hach 1720 Series Turbidimeters, there is no need to divert or shut off sample, and no sample cell or flow chamber to drain, disassemble or clean. Routine verification is as easy as described below.



1. Set AquaTrend® Interface to "Hold Output" if required. Remove instrument head assembly and dry photocell window and optics mount with a soft cloth. Place the ICE-PIC™ Module in turbidimeter body.



2. Place instrument head assembly on the ICE-PIC™ Module. Wait for reading to stabilize (depends on instrument signal averaging setting) and verify that instrument is reading the ICE-PIC™ Module within specification.



3. Remove the ICE-PIC™ Module from instrument and replace head assembly on turbidimeter body. The instrument comes back on line automatically.

ICE-PIC™ Calibration/Verification Module

FOR 1720 SERIES TURBIDIMETERS



The new ICE-PIC™ Calibration/Verification Module for Hach 1720 Series Turbidimeters allows verification of proper instrument performance in seconds. The advanced optomechanical design provides a fixed NTU value with specified accuracy, and outstanding repeatability.

The new ICE-PIC™ Calibration/Verification Module from Hach offers a means of fast, inexpensive performance verification of Hach 1720D and 1720C Process Turbidimeters*. The patent-pending ICE-PIC™ Module features an advanced optomechanical filter that is factory-certified to a specified NTU value using USEPA-accepted Formazin primary standards. It is intended primarily for use in drinking water and wastewater plants where convenience and speed of instrument performance verification are critical to maintaining process control, particularly in installations where multiple instruments are in use.

Benefits of ICE-PIC™ Calibration/Verification Module

- **Saves time**—verification is the fastest available, taking less than one minute
- **Ease of use**—compact and lightweight, ready for use at any time
- **Accuracy**— $\pm 10\%$ or better, and each device is supplied with a Certificate of Accuracy
- **Repeatability**—exceptional repeatability allows individual instrument performance to be tracked closely
- **Affordability**—one-time investment, no consumables
- **One-year warranty**

* For instruments not required for regulatory reporting, the ICE-PIC™ Calibration/Verification Module may be used for convenient, one-point calibrations. See instrument manual to perform calibration by comparison.

ICE-PIC™ Calibration/Verification Module

FOR 1720 SERIES TURBIDIMETERS



The ICE-PIC™ Module eliminates the requirement for consumable standards in verification and allows operators to check instrument performance at any time, without advance preparation. The device is designed to take full advantage of the simplicity of the 1720 Series Turbidimeter maintenance requirements. There is no need to shut off or divert sample flow from the instrument before verification, and there is no sample cell or flow chamber to drain, disassemble or clean before performing verification. In typical circumstances, performance verifications

require less than one minute. The device is mounted in a compact, lightweight housing for easy transport anywhere in the plant.

During verification, the ICE-PIC™ Module reduces light from the instrument source and directs it to the instrument photocell. The proprietary design allows detected light to be set to a given NTU value, based on direct comparison to USEPA-accepted Formazin primary standards. Exceptional device repeatability allows operators to track the performance of individual instruments very closely.

Specifications

	Value	Accuracy	Acceptable Range	Repeatability
52250-00	20 NTU	± 10%	18.0 – 22.0 NTU	± 2%
52215-00	1 NTU	± 10%	0.90 – 1.10 NTU	± 2%
52225-00	0.5** NTU	± 10%	0.45 – 0.55 NTU	± 2%

How To Order

ICE-PIC™ Calibration/Verification Module*
(For 1720D and 1720C Turbidimeters)

52250-00	20 NTU
52215-00	1 NTU
52225-00	0.5** NTU
52003-00 3 Pac	20, 1, 0.5** NTU

* For instruments not required for regulatory reporting, the ICE-PIC™ Calibration/Verification Module may be used for convenient, one-point calibrations. See instrument manual to perform calibration by comparison.

** 0.5 NTU ICE-PIC™ Module is not recommended for calibration.



THERE'S ONLY ONE WAY TO BE SURE.

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ICE-PIC™ Advantages

Saves Time

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Easy to Use

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Accurate

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Repeatable

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Affordable

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One-Year Warranty