

FOR REFERENCE ONLY

Model 5201

3/4" Self Contained

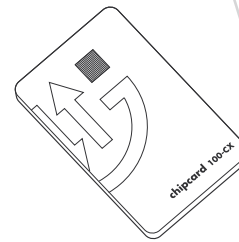
BTU Meter



ISTEC
Flow Measurement & Control

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3/4" Compact Electronic BTU Meter with Smart Slot Interface



Simple and precise

The 5201 BTU meter provides optimum technical and administrative tools for tenant energy sub-metering. The SmartSlot interface allows the compact BTU heat meter to transfer all measured data required for billing via the desired mode of communication (or recording). The 5201 BTU meter can be read manually from the LCD mounted on the top of the calculating unit, downloaded to a spreadsheet with the "SmartCard" or tied into a building network using the M-bus module & hub options.

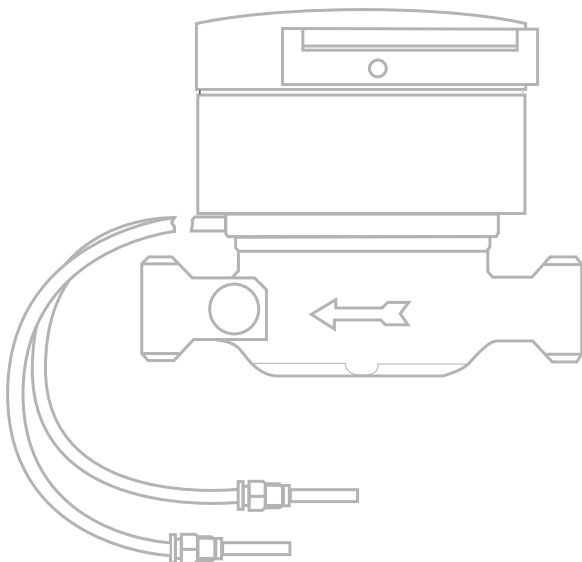
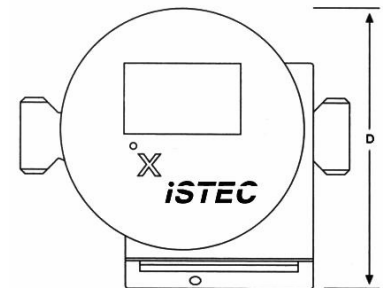
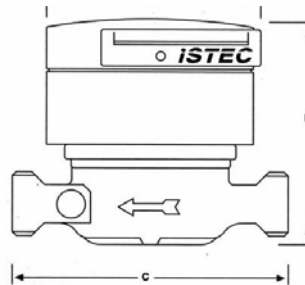
Installation

The 5201 BTU meter provides optimum technical and administrative tools for tenant energy sub-metering. The SmartSlot interface allows the compact BTU meter to transfer all measured data required for billing via the desired mode of communication (or recording). The 5201 BTU meter can be read manually from the LCD mounted on the top of the calculating unit, downloaded to a spreadsheet with the "SmartCard" or tied into a building network using the M-bus module & hub options.



DIMENSIONS

| | |
|--------------|--------|
| Pipe Size | 3/4" |
| A | 3-3/8" |
| B | 3-5/8" |
| C | 5-1/8" |
| D | 3-7/8" |
| Sensor | |
| Cable Length | 13' |



TECHNICAL SPECIFICATIONS

| | |
|----------------------|------------------------------|
| Maximum Temperature: | 200F |
| Maximum Pressure: | 230 PSI |
| Minimum Flow: | 0.2 GPM |
| Continuous Flow: | 11.0 GPM |
| Maximum Flow: | 22.0 GPM |
| LCD: | 7 Digits |
| Sensors: | Platinum RTD (PT500) |
| Power Supply: | 10 Years + 1 Reserve |
| Battery: | CR 17450 Lithium Replaceable |

Meter Displays:

- 1 Accounting date value (kWh or MWh)
- 2 Heat meter present flow (l/h or m3/h)
- 3 Previous year's date value (kWh or MWh)
- 4 Two year's previous date value (kWh or MWh)
- 5 High temperature in °C
- 6 Low temperature °C
- 7 Heat meter temperature difference (spread)
- 8 Total volume
- 9 Info code (Status and error messages)
- 10 High resolution volume flow (litres)
- 11 High resolution energy (kWh)
- 12 High resolution energy increase



Simplified Data Acquisition

The compact BTU meter from ISTEK is operator friendly and convenient. Thanks to the versatile smart slot interface it is impossible to record data incorrectly. When the SmartCard is swiped the last thirteen (13) months of critical data is automatically saved and with the Chip Card Reader that information is downloaded into a spread sheet.

Optimum value for the money

The Istec 5201 compact BTU meter is the ideal device for modern, individual energy cost recording for sub-metering. The modular system, simple installation and intelligent interfaces provide excellent value for the money. In addition, the 5201 BTU meter meets the European Standard EN-1434 for accuracy and reliability.

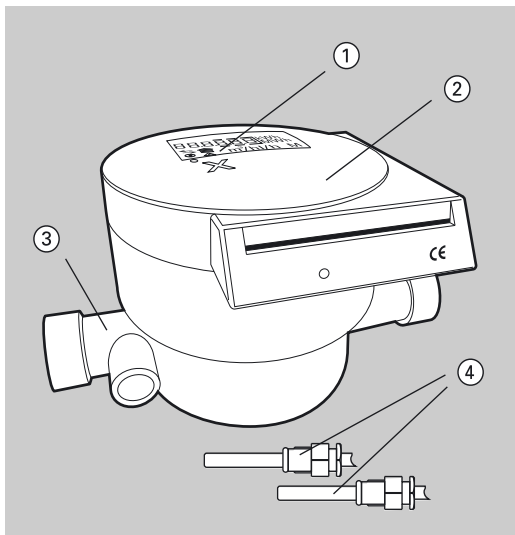


Communications interfaces for every need

In addition to conventional reading of the data via the display, the innovative concept of the Istec compact BTU meter also enables fully automatic data transfer with any desired modern mode of communication. The interface flexibly adapts to meet user and operator needs. Communications media such as pulse output, M-bus or chip cards are used depending on the configuration. Thanks to its individual options and the high level of automation the Istec BTU meter is extremely economical. Its configuration and development capabilities today ensure access to every mode of communication the future has to offer.

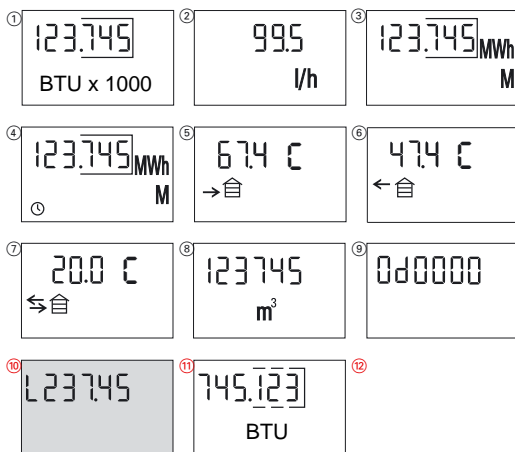
Local Distributor:

ISTEC
Flow Measurement & Control



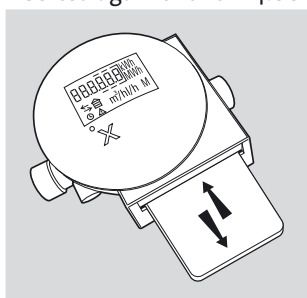
- ① LCD-Display with 6 digit and special characters
- ② Housing
- ③ Hydraulic part
- ④ Temperature sensors

Display sequence ServiceCard or „Doubleclick DummyCard“



- ① Accounting date value (kWh or MWh)
- ② Heat meter present flow (l/h or m³/h)
- ③ Previous year's date value (kWh or MWh)
- ④ Two year's previous date value (kWh or MWh)
- ⑤ High temperature in °C
- ⑥ Low temperature °C
- ⑦ Heat meter temperature difference(spread)
- ⑧ Total volume
- ⑨ Info code (Status and error messages)
- ⑩ High resolution volume flow (litres)
- ⑪ High resolution energy (BTU)
- ⑫

The display switches every 2 seconds between the values. Is the ServiceCard / „DummyCard“ removed, than the actual Display reading will remain the same until the Card is inserted again or until 24.00 hrs.



Double-click DummyCard

General

Heat meters are calibrated and sealed measuring instruments and must be handled accordingly.

Installation of heat meter

The relevant installation guidelines and standards for each country concerned apply strictly.

Istec 5201

- Application in strict accordance with identification label
- Ambient temperature max 50°C
- Positioning for good readability
- Slot or ChipCard must always look face down
- Protect against strong vibrations and shocks

Hydraulic unit

- Protect metering device against contamination.
- Replacement of the counter must be possible without draining the plant
- Provide flow control valve to avoid maximum pressure to exceed Qn max
- Installation of meter on return flow
- Check correct flow direction
- Plan good accessibility before installation
- Maximum working pressure, adhere to type plate
- Installation positioning, adhere to type plate
- Do not exceed nominal flow rate

Temperature sensor

The arising pre and return temperatures must stay within the range specified for the counter. Avoid small temperature variances

- Consider balanced water flow
- Do not fit sensors close to manifold
- Keep pipe length to minimum
- Fixed installation (no free running pipes)
- Installation only with even temperature distribution
- Only symmetric installation

Commissioning

After the installation of the heat meter it must be ensured that the pipe connections to the hydraulic unit and the temperature sensors is sealed immediately. The heat meter must be checked for functionality.

1. Activate heat circuit
2. Push mx ServiceCard (015884.50.02) into the slot of counter (or by means of „double click with dummy Card“) and check discharge, flow- and return temperature for plausibility.
3. Administer segment-test (for this the ServiceCard can be used, it must be pushed backwards into the slot of the counter)

Double-click

All heat counters starting from serial number 00026000 support a double-click function, which by means of a double-click with a DummyCard (e.g. credit card) can be used in place of the ServiceCard.

That double-click is produced, if a DummyCard is put into the slot of the counter, pulled out briefly and then put back in again during display tests.

With doubleclick the values ⑩⑪⑫ are not indicated!