

RPM ROTARY METER

Now with Continuous Mechanical Temperature Compensator

Accurate flow measurement and tested tough
American Meter's RPM® Series rotary gas meters are precision engineered to accurately measure natural-gas flow at all standard line conditions. These meters have been placed and proved in the North American commercial and industrial natural-gas markets. Built of rugged extruded aluminum, the RPM® Series housing provides greater strength. These meters are built for tough service where pipe stresses or snap-acting loads could occur.

CMTC register cover and combination index
The rugged design features an integral mounting flange with metal inserts to support mounting screws on both ends. Strong reinforcement ribs support outboard load so that standoff-tie rods are not required. These ribs also increase strength at the instrument drive interface.

Construction of the easy-read index provides an integral compensation and non-compensation index in one module. One compact index is adaptable to all meter sizes by using unique set-gear sets for each size of meter. The CMTC also provides a center drive output for interfacing with both mechanical and electronic accessories.



CMTC RPM® series features

- ▶ Ten sizes currently available – 175 psig (12 bar) (Optional: 200 psi [~14 BAR] MAOP and 285 psi [~ 20 BAR] MAOP)
 - 8.0C CFH
 - 9.0C CFH
 - 11C CFH
 - 1.5M CFH
 - 2.0M CFH
 - 3.5M CFH
 - 5.5M CFH
 - 7M CFH
 - 11M CFH
 - 16M CFH
- ▶ Operating range of CMTC is -40°F to 140°F
- ▶ Direct mount of AMR-type units to CMTC
- ▶ Available with instrument drive for mechanical accessories, automated meter-reading devices and pulse-output devices
- ▶ Vertical or horizontal mounting for preferred installation

Continuous temperature compensation
The new CMTC RPM® Series gas meter provides flowing gas-volume registration continuously and mechanically corrected to the standard base temperature (60°F). Continuous compensation output allows for greater accuracy, as the adjustment input is a linear function proportional to the temperature changes of the flowing gas. Reaction time to temperature changes occurs faster with the CMTC liquid-filled temperature transducer directly in the gas stream when compared to bi-metal sensor designs contained within a thermowell.

In short: The RPM rotary meter is well prepared for a wide area of applications.

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