

### Precision Turbine Flowmeters

## Monitor flow with highest accuracy and full-featured electronics

- Assembled and ready to install
- 4 to 20 mA models feature easy push-button programming and electronic lockout
- Choose from NPT(M) or sanitary process connection

These full-featured turbine meters come complete and assembled—easy to install in your process application. The electronics package is compact, low-profile and weathertight to NEMA 4 standards.

Models with display offer gallon and liter indication, as well as flow rate and two totals (cumulative and batch). Meters feature easy-to-use, well-marked terminals and can be configured to meet most desired needs. If no signal is required, a battery-powered or external-powered display is available.

Models offering 4 to 20 mA output offer the “easiest in the industry” push-button programming and feature an electronic lockout to ensure against tampering or resetting. These meters operate off the power loop, so no additional power is required.

Flowmeter 32610-38 with NPT(M) process fittings



#### Specifications

|   |  |  |
|---|--|--|
| <b>Accuracy:</b> ±0.5%  | <b>Max pressure:</b><br>NPT Process: ½ to 2" NPT(M):<br>5000 psi (344 bar)<br>3" NPT(M): 2500 psi (172 bar)<br>Sanitary Process: 450 psi | <b>Wetted parts:</b><br>NPT Process: 316 stainless steel (SS) housing and rotor supports, tungsten carbide bearings and shaft, CD4MCu SS rotor<br>Sanitary Process: 316 SS housing, shaft, and rotor supports; PTFE sleeve bearings; acetal thrust bearings; CD4MCu SS rotor |
| <b>Repeatability:</b> ±0.1%   |  |  |
| <b>Temperature range:</b><br>NPT Process: -100 to 225°F (-74 to 107°C)<br>Sanitary Process: -100 to 185°F (-74 to 85°C) | <b>Display:</b> 6-digit LCD, ½"H   | <b>Output signal:</b> 4 to 20 mA or scaled pulse<br><b>Input power:</b> 8.5 to 35 VDC, two-wire  |

| Flow range                                       | Connections  | Flow diameter | Max particulate size | Meters with display         |       |                             |       | Meters without display      |       |                             |       |
|--|--------------|---------------|----------------------|-----------------------------|-------|-----------------------------|-------|-----------------------------|-------|-----------------------------|-------|
|  |              |               |                      | No output                   |       | 4 to 20 mA output           |       | 4 to 20 mA output           |       | Scaled pulse output         |       |
|  |              |               |                      | Cat. no.                    | Price | Cat. no.                    | Price | Cat. no.                    | Price | Cat. no.                    | Price |
| <b>Flowmeters with NPT(M) Process Fittings</b>   |              |               |                      |                             |       |                             |       |                             |       |                             |       |
| 0.8 to 6.0 GPM                                   | ½" NPT(M)    | —             | 420 µm               | <a href="#">GH-32610-36</a> |       | <a href="#">GH-32610-43</a> |       | <a href="#">GH-32610-50</a> |       | <a href="#">GH-32610-57</a> |       |
| 1.6 to 16.0 GPM                                  | ¾" NPT(M)    | —             | 420 µm               | <a href="#">GH-32610-37</a> |       | <a href="#">GH-32610-44</a> |       | <a href="#">GH-32610-51</a> |       | <a href="#">GH-32610-58</a> |       |
| 2.32 to 23.0 GPM                                 | ¾" NPT(M)    | —             | 420 µm               | <a href="#">GH-32610-38</a> |       | <a href="#">GH-32610-45</a> |       | <a href="#">GH-32610-52</a> |       | <a href="#">GH-32610-59</a> |       |
| 6.7 to 67.0 GPM                                  | 1" NPT(M)    | —             | 420 µm               | <a href="#">GH-32610-39</a> |       | <a href="#">GH-32610-46</a> |       | <a href="#">GH-32610-53</a> |       | <a href="#">GH-32610-60</a> |       |
| 17.7 to 177.0 GPM                                | 1½" NPT(M)   | —             | 1000 µm              | <a href="#">GH-32610-40</a> |       | <a href="#">GH-32610-47</a> |       | <a href="#">GH-32610-54</a> |       | <a href="#">GH-32610-61</a> |       |
| 33.0 to 330.0 GPM                                | 2" NPT(M)    | —             | 1410 µm              | <a href="#">GH-32610-41</a> |       | <a href="#">GH-32610-48</a> |       | <a href="#">GH-32610-55</a> |       | <a href="#">GH-32610-62</a> |       |
| 60.0 to 600.0 GPM                                | 3" NPT(M)    | —             | 1410 µm              | <a href="#">GH-32610-42</a> |       | <a href="#">GH-32610-49</a> |       | <a href="#">GH-32610-56</a> |       | <a href="#">GH-32610-63</a> |       |
| <b>Flowmeters with Sanitary Process Fittings</b> |              |               |                      |                             |       |                             |       |                             |       |                             |       |
| 0.6 to 6.0 GPM                                   | ¾" sanitary  | ½"            | 420 µm               | <a href="#">GH-32610-64</a> |       | <a href="#">GH-32610-71</a> |       | <a href="#">GH-32610-78</a> |       | <a href="#">GH-32610-85</a> |       |
| 0.8 to 6.0 GPM                                   | 1" sanitary  | ½"            | 420 µm               | <a href="#">GH-32610-65</a> |       | <a href="#">GH-32610-72</a> |       | <a href="#">GH-32610-79</a> |       | <a href="#">GH-32610-86</a> |       |
| 1.6 to 16.0 GPM                                  | 1½" sanitary | ¾"            | 420 µm               | <a href="#">GH-32610-66</a> |       | <a href="#">GH-32610-73</a> |       | <a href="#">GH-32610-80</a> |       | <a href="#">GH-32610-87</a> |       |
| 2.32 to 23.0 GPM                                 | 1½" sanitary | ¾"            | 420 µm               | <a href="#">GH-32610-67</a> |       | <a href="#">GH-32610-74</a> |       | <a href="#">GH-32610-81</a> |       | <a href="#">GH-32610-88</a> |       |
| 6.7 to 67.0 GPM                                  | 1½" sanitary | 1"            | 420 µm               | <a href="#">GH-32610-68</a> |       | <a href="#">GH-32610-75</a> |       | <a href="#">GH-32610-82</a> |       | <a href="#">GH-32610-89</a> |       |
| 17.7 to 177.0 GPM                                | 1½" sanitary | 1½"           | 1000 µm              | <a href="#">GH-32610-69</a> |       | <a href="#">GH-32610-76</a> |       | <a href="#">GH-32610-83</a> |       | <a href="#">GH-32610-90</a> |       |
| 33.0 to 330.0 GPM                                | 2" sanitary  | 2"            | 1410 µm              | <a href="#">GH-32610-70</a> |       | <a href="#">GH-32610-77</a> |       | <a href="#">GH-32610-84</a> |       | <a href="#">GH-32610-91</a> |       |



### Rotor-X™ Sensors

## Eliminate cavitation and minimize pressure drop

Suitable for measuring flow from 1 to 20 feet/second, this paddle design includes a magnet in two opposite paddles for good resolution throughout the measuring range. Without amplification, the output signal can be transmitted up to 200 feet. As an FM-approved device, this sensor may be installed in hazardous locations.

This sensor is offered in materials to resist most chemicals. Select from glass-filled polypropylene or natural PVDF. All sensors have a PVDF rotor and Vitor® O-ring. An integrated 25-foot signal cable is included for wiring the sensor into most systems.

Mount in any pipe that is compatible with the installation fittings on the following page. Rotor-X sensors are compatible with all of the line-powered displays, totalizers and controllers listed on [ColeParmer.com](#) under “Paddle Wheel Accessories”.



#### Specifications

- Flow velocity:** 1 to 20 ft/sec (0.3 to 6 m/sec)
- Output:** 1 V peak-to-peak per ft/sec; 8 kΩ source impedance, nominal frequency of 6 Hz per ft/sec
- Linearity:** ±1% full-scale
- Repeatability:** ±0.5% full-scale
- Max temp:** PP body: 194°F (90°C)  
PVDF body: 212°F (100°C)
- Max pressure (at 68°F/20°C):**  
PP body: 180 psi (12.4 bar)  
PVDF body: 200 psi (13.8 bar)

| Pipe ID  | Sensor length | Catalog number              | Price |
|--|---------------|-----------------------------|-------|
| <b>Sensors with polypropylene body; titanium shaft</b> |               |                             |       |
| ½" to 4"   | 4½"           | <a href="#">GH-05618-10</a> |       |
| 5" to 8"   | 5½"           | <a href="#">GH-05618-11</a> |       |
| <b>Sensors with PVDF body; Hastelloy C® shaft</b>      |               |                             |       |
| ½" to 4"   | 4½"           | <a href="#">GH-05618-13</a> |       |