Industry’s Best Servo Gauge Is Now Even Better
Honeywell Enraf has ensured that the industry’s best tank gauging solution is now even better. Designed for measuring varied liquids in any type of storage tank, our new Smart Servo 954 is a reliable, versatile and accurate automatic tank gauge. This instrument advances the art of tank gauging by combining proven technology with enhanced electronics and software, as well as increased intelligence. And, it stands up to the most demanding process conditions.

**THE INNOVATIVE DESIGN OF THE SMART SERVO 954 INCORPORATES:**

- Patented algorithms for greater precision in all applications
- Adaptive dynamic compensations to improve measurement under adverse conditions
- Unique force transducer technology to optimize stable operation
- Advanced drum calibration for guaranteed accuracy
- “SIL-by-design” features with unique diagnostics for reliable operation (IEC 61508)
- Separate terminal compartment for ease of wiring
- Safety approvals and certifications from legal metrology institutes worldwide
- NMi approvals
- OIML R85 and varied liquids compliance

**State-of-the-art Features**

The Smart Servo 954 was designed to incorporate a host of innovative, best-in-class features.

For example, its unique, fully capable software supports diagnostics on SIL-rated loops. An option slot for additional functionalities allows the connection of temperature measuring elements for spot/average product and vapor phase temperature, as well as product temperature profiles.

The new gauge is equipped with a Servo Auto Test feature, which increases safety, integrity and diagnostic coverage, and enables usage in overfill protection loops. It can be included in SIL-2 safety loops, and if used in a redundant configuration, is suitable for SIL-3-rated loops.
A FLEXIBLE AND ADAPTABLE SOLUTION

Honeywell Enraf servo gauging systems provide a flexible and adaptable solution for a wide range of terminal operations. They are suitable for:

- Product and gas temperature with spot or average temperature measurement, or temperature profiling
- Product level
- Interface level
- Density measurement and profiling
- Direct water bottom measurement or via capacitive probes
- Average continuous density monitoring connecting one or more HART pressure transmitters
- TUV SIL certified NO/NC alarm relay contact and/or 4-20mA Analog output for direct connection to Safety or Distributed control system
- Easy integration with Honeywell Experion DCS system & Safety Manager ESD system
- Measurement ranges up to 150 m
- Working pressure up to 40 bar

BENEFITS TO YOUR BOTTOM LINE

Honeywell Enraf Smart Servo 954 is the most reliable, versatile and accurate automatic tank gauge available.

- Accurate measurement in liquids including vaporized applications
- Improve reliability under dynamic conditions
- Maximize storage capacity with lowest safety diagnostic cycle time
- Enhanced safety with SIL certified AO/DO options for overfill prevention
- Modular design for ease of maintenance
- Simple & cost effective migrations for legacy & 3rd party gauge
- One stop integrated gauging solution for all your terminal needs
# Technical Specifications

## DATA COMMUNICATION

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Honeywell Bi-phase mark (Pos 7 = B)</strong></td>
<td></td>
</tr>
<tr>
<td>Baud rate</td>
<td>1200 / 2400 bps</td>
</tr>
<tr>
<td>Cable characteristics</td>
<td>2 wires, twisted pair, Rmax = 200 Ohm / line, Cmax = 1uF; cable length: 10 km (6 miles) or more *1</td>
</tr>
<tr>
<td>Isolation voltage</td>
<td>&gt; 1,500 V</td>
</tr>
<tr>
<td>Lightning protection</td>
<td>Full galvanic separation via isolating transformers</td>
</tr>
<tr>
<td>Protocol</td>
<td>Standard Honeywell fieldbus (Serial, ASCII, GPU protocol)</td>
</tr>
<tr>
<td>Common mode rejection</td>
<td>&gt; 150 dB</td>
</tr>
</tbody>
</table>

## TRL/2 Communication Protocol

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TRL/2 Communication Protocol</strong> (Pos 7 = T)</td>
<td></td>
</tr>
<tr>
<td>Protocol</td>
<td>Modbus RTU; Communication: TRL/2 100/90 KHz FSK</td>
</tr>
<tr>
<td>Baud rate</td>
<td>4800, 8 bits and 1 stop bit.</td>
</tr>
<tr>
<td>Lightning protection</td>
<td>Opto-isolators</td>
</tr>
<tr>
<td>Cabling</td>
<td>18 AWG (minimum) with shielded twisted pair, max 4 km with max 8 multi drop Gauge connections</td>
</tr>
<tr>
<td>Physical layer</td>
<td>Logic 1 is represented by 100kHz and Logic 0 by 90kHz: (+/- 3%)</td>
</tr>
<tr>
<td>Voltage levels</td>
<td>3.6V +/- 10%</td>
</tr>
<tr>
<td>Power rating</td>
<td>At 12V Nominal current drawn by TRL/2 module alone is 40mA (+/- 10%), [power consumption is 480mW (+/- 10%)]. The worst case current/power drawn with below mentioned conditions is 60mA.</td>
</tr>
</tbody>
</table>

## HART® Slave – Multidrop and/or 4-20 mA (Pos 7 = H)

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protocol</td>
<td>Communications: HART® 7</td>
</tr>
<tr>
<td>Analog output loop (non-I.S.)</td>
<td>Active or Passive: selectable by jumper</td>
</tr>
<tr>
<td></td>
<td>– Active: output voltage: 20V +/- 5%</td>
</tr>
<tr>
<td></td>
<td>– Passive: minimum external supply voltage: 11.5 V</td>
</tr>
<tr>
<td></td>
<td>maximum external supply voltage: 30 V (55 V with serial resistor)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.1% of actual measurement</td>
</tr>
<tr>
<td>Cable characteristics</td>
<td>2 wires, shielded, twisted pair</td>
</tr>
</tbody>
</table>

## ALARM CONTACT OPTIONS

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware alarms (1x SPDT)</td>
<td>125 VAC, 0.5 A (110 VDC, 0.3 A)</td>
</tr>
<tr>
<td>Hardware alarms (1x SPDT)</td>
<td>150 VAC, 3 A (40 VDC, 3 A)</td>
</tr>
<tr>
<td>Hardware alarms (2x SPDT)</td>
<td>125 VAC, 0.5 A (110 VDC, 0.3 A)</td>
</tr>
<tr>
<td>Hardware alarms (2x SPDT)</td>
<td>150 VAC, 3 A (40 VDC, 3 A)</td>
</tr>
<tr>
<td>Relay operation</td>
<td>– Normally Open/Normally Closed contact: selectable by jumper</td>
</tr>
<tr>
<td></td>
<td>– Normally Energized / Normally De-energized: configurable by software setting</td>
</tr>
<tr>
<td></td>
<td>– PV Monitor (any of the measured parameters, configurable by software setting)</td>
</tr>
<tr>
<td></td>
<td>– Remote control (configurable by software setting)</td>
</tr>
</tbody>
</table>

## SIL 2/3 SAFETY FUNCTIONS ALARM CONTACTS OPTIONS

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIL Digital Output</td>
<td>1 x SIL DO contact (1 x SPDT contact, 2 A at 250 Vac or 2 A at 40 Vdc, Pmax = 500 W)</td>
</tr>
<tr>
<td>SIL Analog Output</td>
<td>SIL AO: NAMUR NE43 compliant</td>
</tr>
<tr>
<td>SIL Digital Output + Analog Output</td>
<td>SIL AO + 1 SIL DO contact NAMUR NE43 compliant (1 x SPDT contact, 2 A at 250 Vac or 2 A at 40 Vdc, Pmax = 500 W)</td>
</tr>
<tr>
<td></td>
<td>SIL AO + 2 SIL DO contacts NAMUR NE43 compliant (2 x SPDT contact, 2 A at 250 Vac or 2 A at 40 Vdc, Pmax = 500 W)</td>
</tr>
</tbody>
</table>

---

**Notes:**

- HART® is a registered trademark of the HART Communications Foundation.
- Distances of more than 10 km possible depending on amount of field instruments and cabling topology.
- Under reference conditions.
- With VITO temperature probe or Spot (PT100).
- Various generally available types of elements (RTD, MRT) can be selected.
- Under reference conditions
- Minimum product density between layers: 10.0 kg/m³ (6.25 lb/ft³)
- In extreme environments the accuracy could be affected depending on the thermal expansion coefficient of the wetted parts.
- Under reference conditions

Continued...
## Technical Specifications (continued)

### INPUT

#### VITO Input for Temperature and Water Probe

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communications</strong></td>
<td>Proprietary HART® (Ex-i)</td>
</tr>
<tr>
<td><strong>Cable characteristics</strong></td>
<td>2 wires, shielded, twisted pair, Cmax = 1 μF, Lmax = 9 mH, Rmax = 25 Ω/line</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>- Temperature measurement: ±0.1 °C (±0.18 °F) *2, *3</td>
</tr>
<tr>
<td></td>
<td>- Water level measurement: ±2 mm (0.078&quot;) *3</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>- Temperature measurement: 0.01 °C (0.018 °F)</td>
</tr>
<tr>
<td></td>
<td>- Water level measurement: 0.1 mm (0.01&quot;)</td>
</tr>
</tbody>
</table>

#### Spot RTD Input

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Configurations</strong></td>
<td>- 3 wire or 4 wire RTD, one element or two elements *4</td>
</tr>
<tr>
<td></td>
<td>- MPT or MRT up to 6 elements with 2 common ground wires *4</td>
</tr>
<tr>
<td><strong>Cable characteristics</strong></td>
<td>Shielded, Rmax = 100 Ω/line, Cmax = 1 μF, Lmax = 10.5 mH</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±0.1 °C (±0.18 °F)</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>0.01 °C (0.01 °F)</td>
</tr>
</tbody>
</table>

#### HART® Input

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Configurations</strong></td>
<td>Options</td>
</tr>
<tr>
<td></td>
<td>- 5 HART® inputs and / or HIMS density calculation</td>
</tr>
<tr>
<td></td>
<td>- VITO sensors and / or 3 HART® inputs</td>
</tr>
<tr>
<td></td>
<td>- 3 HART® input, HIMS density calculation and VITO sensors</td>
</tr>
<tr>
<td><strong>Max. instruments per module</strong></td>
<td>5 (digital) or 1 (analog)</td>
</tr>
<tr>
<td><strong>Communications</strong></td>
<td>HART® (revision 4)</td>
</tr>
<tr>
<td><strong>Cable characteristics</strong></td>
<td>2 wires, shielded, twisted pair, Cmax = 1 μF, Lmax = 9 mH, Rmax = 25 Ω/line</td>
</tr>
</tbody>
</table>

### Other Options

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cable entries</strong></td>
<td>Adapters available to fit other sizes cable glands</td>
</tr>
</tbody>
</table>

### INSTRUMENT MEASURING SPECIFICATION

#### Level measuring range

<table>
<thead>
<tr>
<th>Standard</th>
<th>27 m (88 ft) Pos 18 = A, B, C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended</td>
<td>37 m (121 ft) Pos 18 = E, F</td>
</tr>
<tr>
<td></td>
<td>40 m (131 ft) Pos 18 = H, K</td>
</tr>
<tr>
<td></td>
<td>35 m (115 ft) (with measuring wire up to 150 m (492 ft)) Pos 18 = M, K</td>
</tr>
<tr>
<td>Measuring accuracy level</td>
<td>40 m (131.2 ft): &lt; ± 0.4 mm (± 0.016&quot;) *5;</td>
</tr>
<tr>
<td></td>
<td>40 m (131.2 ft): OIML R85 certified (Pos 5 = X);</td>
</tr>
<tr>
<td></td>
<td>45 meter with ± &lt; 1 mm accuracy</td>
</tr>
<tr>
<td></td>
<td>last 35 meter with ± &lt; 1 mm accuracy on 150 m wire</td>
</tr>
<tr>
<td>Measuring accuracy interface</td>
<td>&lt; ± 2 mm (± 0.08&quot;) *6</td>
</tr>
<tr>
<td>Measuring accuracy temperature</td>
<td>&lt; ± 0.1 °C (± 0.18 °F) *5</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>&lt; ± 0.1 mm (± 0.004&quot;) *5</td>
</tr>
<tr>
<td>Repeatability</td>
<td>&lt; ± 0.1 mm (± 0.004&quot;) *5</td>
</tr>
</tbody>
</table>

#### Density Measurement

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Density measurement</strong></td>
<td>With density firmware (Pos 20 = D and density displacer (Pos 19 = E or F)</td>
</tr>
<tr>
<td>Measuring accuracy servo density</td>
<td>&lt; ± 3 kg/m³ (± 0.19 lb/ft³)</td>
</tr>
</tbody>
</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flange</strong></td>
<td>See ‘Identification Code’ Pos 14-16</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>See ‘Dimensional Drawing’</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
</tr>
<tr>
<td>Medium pressure version</td>
<td>16 kg (35 lb)</td>
</tr>
<tr>
<td>Chemical version</td>
<td>21 kg (46 lb)</td>
</tr>
<tr>
<td>High pressure version</td>
<td>26 kg (57 lb)</td>
</tr>
<tr>
<td><strong>Cable entries</strong></td>
<td>4 x ¾&quot; NPT threaded (2* I.S. + 2* non-I.S.)</td>
</tr>
</tbody>
</table>
## Technical Specifications (continued)

### PROCESS

<table>
<thead>
<tr>
<th>Operating pressure</th>
<th>M and C versions Up to 6 bar / 0.6 MPa (90 psi); Pos 14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H version Up to 40 bar / 4 MPa (600 psi) (up to 25 bar / 2.5 MPa in acc. to PED); Pos 14</td>
</tr>
<tr>
<td>Temperature</td>
<td>Max. process temperature +200 °C (+392 °F), drum housing must be kept below +65 °C (+149 °F) *7</td>
</tr>
<tr>
<td></td>
<td>Min. process temperature -200 °C (-328 °F), drum housing must be kept above -40 °C (-40 °F) *7</td>
</tr>
</tbody>
</table>

### PROCESS WETTED MATERIALS

- **Drum compartment**: Cast aluminum Int. reg. AA A356 EN1706 AC-AlSi7MgO 3; Pos 14 = A or M
- **Stainless steel**: ASTM A351, CF-8M, G- X6 CrNiMo 18 10 (1.4408); Pos 14 = H or C
- **Measuring drum, drum shaft**: Stainless steel (1.4401) EN10088 AISI 316
- **Measuring wire**: See 'Identification Code'; Pos 18
- **Magnet cap**: Stainless steel (1.4401) EN10088 AISI 316
- **O-rings**: Drum cover Silicone/FEP; others FPN (Viton®); Special O-ring (Perlas®) available for demanding chemical applications (such as Ammonia), part nr. S08S4969

### ENCLOSURE MATERIALS

- **Servo comp. and cover**: All types cast aluminum Int. reg. AA A356 EN1706 AC-AlSi7MgO.3
- **Finish aluminum parts**: Conforms to MIL-DTL-5541F

### ENVIRONMENTAL SAFETY

- **Ambient temperature**: -40 °C to +65 °C (-40 °F to +149 °F)
- **Storage temperature**: -50 °C to +70 °C (-58 °F to +158 °F)
- **Protection class**: IP66 / IP67 according to EN 60529 (NEMA 4X)
- **Safety**: Explosion proof
  - II 1/2 G Ex d IIB T6 Ga/Gb or Ex de IIB T6 Ga/Gb or Ex d [ia Ga] IIB T6 Ga/Gb or Ex de [ia Ga] IIB T6 Ga/Gb; acc. to ATEX KEMA
  - Class I, Division 1, Group C & D; acc. to FM
  - Class I, Group C & D acc. to CSA certificate
  - Consult factory for other approvals and updates

### ELECTRICAL

- **Power supply**: Autoselect 65 Vac to 240 Vac, 50/60 Hz and/or 24 Vdc to 65 Vdc
- **Power rating**: 11 Wmax continuously

### FUNCTIONAL SAFETY

- **Configuration**: TÜV certified for SIL 2 (single configuration) and SIL 3 (redundant configuration).
  For contact specification, refer to page 5.
<table>
<thead>
<tr>
<th>Identification Code</th>
<th>IS Terminals</th>
<th>NON IS Terminals</th>
<th>Boards</th>
</tr>
</thead>
</table>

**Pos 1, 2, 3, 4** Instrument code

**SmartServo FlexLine**

**Pos 5** Performance and Legal metrology approvals

- **Accuracy ± 0.4 mm** Xtreme Performance, Legal Metrology with OIML R85 report and sealing facilities.
  - Only when Pos 7 = B or T 1
- **Accuracy ± 0.4 mm** Xtreme Performance, per OIML R85, with factory calibration report according to OIML.
- **Accuracy ± 1 mm** High Performance, for custody transfer compliant to OIML R85, API 3.1B and ISO 4266 (1 & 3) with factory calibration report according to OIML.
- **Accuracy ± 1 mm** High Performance, for custody transfer compliant to API 3.1B and ISO 4266 (1 & 3).

**Pos 6** User interface (connector for portable HART SmartView standard for all selections)

- With internal display:
  - - - 1
- With internal display and terminals for stand-alone HART SmartView:
  - - 1

**Pos 7** Data transmission

- Enraf Fieldbus Bi-phase Mark (BPM):
  - - - 1
- HART / 4-20 mA output:
  - - - 1
- TRL/2 field bus:
  - - - 1

**Pos 8** Basic VITO and HART input options

- None:
  - - - -
- VITO temperature and/or water sensor:
  - 2 - -
- VITO temperature and/or water sensor and 1 HART input:
  - 4 - -
- HART input (up to 3 HART devices):
  - 2 - -
- HART input (up to 3 HART devices) and HIMS density calculations:
  - 4 - -

**Pos 9** Additional VITO and HART input options

- None:
  - - - -
- VITO temperature and/or water sensor:
  - 2 - - 1
- VITO temperature and/or water sensor and 3 HART inputs:
  - 8 - - 1
- VITO temperature and/or water sensor and 3 HART inputs and HIMS density calculations:
  - 8 - - 1
- HART input (5 HART inputs):
  - 4 - - 1
- HART input (5 HART inputs) and HIMS density calculations:
  - 4 - - 1

**Pos 10** Temperature

- None:
  - - - -
- RTD one spot element 3 wire:
  - 3 - - 1
- RTD one spot element 4 wire:
  - 4 - - 1
- RTD 3 elements MRT / MPT Common return:
  - 5 - - 1
- RTD 4 elements MRT / MPT Common return:
  - 6 - - 1
- RTD 5 elements MRT / MPT Common return:
  - 7 - - 1
- RTD 6 elements MRT / MPT Common return:
  - 8 - - 1

**Pos 11** Alarm outputs

- None:
  - - - -
- Hardware alarms (1x SPDT) 125 VAC, 0.5 A (110 VDC, 0.3 A):
  - 2 - - 1
- Hardware alarms (1x SPDT) 150 VAC, 3 A (40 VDC, 3 A):
  - 2 - - 1
- Hardware alarms (2x SPDT) 125 VAC, 0.5 A (110 VDC, 0.3 A):
  - 4 - - 1
- Hardware alarms (2x SPDT) 150 VAC, 3 A (40 VDC, 3 A):
  - 4 - - 1

**Pos 12** SIL functionality

- None:
  - - - -
- 1 x SIL DO contact (1 x SPDT contact, 2 A at 250 VAC or 2 A at 40 VDC, Pmax = 500 W):
  - 2 - - 1
- 2 x SIL DO contact (2 x SPDT contact, 2 A at 250 VAC or 2 A at 40 VDC, Pmax = 500 W):
  - 4 - - 1
- SIL AO NAMUR NE43 compliant:
  - 3 - - 1
- SIL AO + 1 SIL DO contact NAMUR NE43 compliant (1 x SPDT contact, 2 A at 250 VAC or 2 A at 40 VDC, Pmax = 500 W):
  - 5 - - 1
- SIL AO + 2 SIL DO contacts NAMUR NE43 compliant (2 x SPDT contact, 2 A at 250 VAC or 2 A at 40 VDC, Pmax = 500 W):
  - 7 - - 1

**Pos 13** Additional communication

- None or Select from Pos 7:
  - 0 or 2 0 or 2

**Pos 14, 15, 16** Pressure, drum compartment & flange

- Atmospheric pressure, 2” Class 150 FF, Flanges acc. ASME B16.5, Rt = 3.2 - 6.3 mm, AL
Notes:
1) Applicable for compliance to country specific Legal Metrology certificates (like Netherlands, Germany etc.) For witnessed verification specify authority; for more information please contact factory.
2) Contact factory for longer measuring ranges.

Restrictions:
Sum of boards = max 5 | Sum of IS terminals = max 12 | Sum of non-IS terminals = max 12

Identification Code (Continued)

Medium pressure, 2” Class 150 FF, Flanges acc. ASME B16.5, (Ra=3.2-6.3 µm), AL, Up to 6 Bar
Chemical version, 2” Class 150 RF, Flanges acc. ASME B16.5, (Ra=3.2-6.3 µm), AISI 316, Up to 6 bar
High pressure, 2” Class 300 RF, Flanges acc. ASME B16.5, (Ra=3.2-6.3 µm), AISI 316, Up to 40 Bar
High pressure, DN50, PN 40, Flanges acc. EN 1092-1, (Ra=3.2-12.5 µm), AISI 316, Up to 40 Bar

Pos 17 Safety approvals
- ATEX / IECEx
- FM USA
- CSA Canada

Pos 18 Measuring range & wire material
- 27 m (88 ft) AISI 316 0.2 mm
- 27 m (88 ft) Hastelloy C22 0.2 mm
- 27 m (88 ft) Tantalum 0.2 mm
- 37 m (121 ft) AISI 316 0.2 mm
- 37 m (121 ft) Invar 0.2 mm
- 37 m (121 ft) Tungsten 0.25 mm
- 40 m (131 ft) AISI 316 0.2 mm
- 40 m (131 ft) Tungsten 0.25 mm
- 45 m (131 ft) AISI 316 0.2 mm
- 45 m (131 ft) Tungsten 0.25 mm
- 150 m (492 ft) AISI 316 (35 m measuring range and ±1 mm accuracy with 150 m 0.2 mm wire for cavern installation)

Pos 19 Displacer
- None
- U815C/223/CT/110 Carbon filled PTFE Hostaflon™, weight 223 g; ø 110 mm
- U815C/223/CT/90 Carbon filled PTFE Hostaflon™, weight 223 g; ø 90 mm
- U815C/223/CT/45 Carbon filled PTFE Hostaflon™, weight 223 g; ø 45 mm
- U815C/223/CT/25 Carbon filled PTFE Hostaflon™, weight 223 g; ø 25 mm
- U815C/260/S/90 AISI 316, weight 260 g; ø 90 mm (for density measurement)
- U815C/260/S/45 AISI 316, weight 260 g; ø 45 mm (for density measurement)

Pos 20 Servo density measurement
- No density option
- With Servo Density measurement (Select None, E or F in displacer selection Pos 19)

Pos 21 Additional options
- None
- Air purge connection for drum compartment (1/4” BSP entry)

Pos 22 Tag plate
- No tag plate
- Tag plate (Material: CuNi alloy)

Typical Identification Code
Your Identification Code

DIMENSIONAL DRAWING

<table>
<thead>
<tr>
<th></th>
<th>“B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>A, M and C versions</td>
<td>427 mm (16 13/16&quot;)</td>
</tr>
<tr>
<td>H versions</td>
<td>449 mm (17 11/16&quot;)</td>
</tr>
</tbody>
</table>

2 cable entries 3/4” NPT for non i.s. wiring.
2 cable entries 3/4” NPT for i.s. wiring.

Ref. to the instr. code Pos. 15,16 for the flanges available.

All technical specifications are subject to change without notice.
For More Information
To learn more about Honeywell’s Enraf Small Volume Provers, visit www.honeywellenraf.com or contact your Honeywell account manager.

Americas
Honeywell Enraf Americas, Inc.
2000 Northfield Ct.
Roswell, GA 30076
USA
Phone: +1 770 475 1900
Email: enraf-us@honeywell.com

Europe, Middle East and Africa
Honeywell Enraf
Delftechpark 39
2628 XJ Delft
The Netherlands
Phone: +31 (0)15 2701 100
Email: enraf-nl@honeywell.com

Asia Pacific
Honeywell Pte Ltd.
17 Changi Business Park Central 1
Singapore 486073
Phone: +65 6355 2828
Email: enraf-sg@honeywell.com