

Liquid Density Measurement Product Range


| | 7835 | 7845 | 7846 | 7847 | 7826 | 7828 |
|----------------------------------|-------------|---------------------|-------------|--------------------------------|-----------|-----------|
| Density Measurement | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Density Accuracy | 0.00015g/cc | 0.00035g/cc | 0.00035g/cc | 0.00035g/cc | 0.001g/cc | 0.001g/cc |
| Temperature Measurement | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Referred Density Measurement | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Brix/Baume/Plato/% concentration | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sensor Type | Tube | Tube | Tube | Tube | Fork | Fork |
| Sensor Material | Nispan C | Stainless Steel 316 | Hastelloy | Stainless Steel 316 (Hygienic) | Various | Various |
| Long Stem | | | | | ✓ | ✓ |

| Version | 7835 | 7845 | 7846 | 7847 | 7826 | 7828 |
|--------------------------------|----------------|----------------|----------------|----------------|--------------------|--------------------|
| Mounting Arrangement | Bypass/ Inline | Bypass/ Inline | Bypass/ Inline | Bypass/ Inline | Bypass/Tank/Inline | Bypass/Tank/Inline |
| Frequency Output | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Entrained Gas Frequency Output | ✓ | ✓ | ✓ | ✓ | | |
| Transmitter Version | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Analog Outputs | 2/3 optional | 2/3 optional | 2/3 optional | 2/3 optional | 2 | 2 |
| MODBUS Protocol | Standard | Standard | Standard | Standard | Standard | Standard |
| HART Communication | Optional | Optional | Optional | Optional | | |
| Local Display | Optional | Optional | Optional | Optional | | |

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|--------------------------------|--------------------|-----------------|-------------------|-----------------|------------------------------------|------------------------------------|
| Intrinsically Safe (Exia) | ✓ | ✓ | ✓ | ✓ | | |
| Explosion Proof (Exd) | Freq. out only | Freq. out only | | | ✓ | ✓ |
| Principal Markets | Fiscal Measurement | General Purpose | Corrosive Liquids | Food & Beverage | General Purpose/ Corrosive Liquids | General Purpose/ Corrosive Liquids |
| 795X Signal Converter Required | Optional | Optional | Optional | Optional | Optional | |

Gas Density Measurement Product Range

| | 7812 | 3098 |
|---|-------|------|
| Density Measurement | ✓ | |
| Density Accuracy | ±0.1% | |
| Specific Gravity / Gas Relative Density Measurement | | ✓ |

| | | |
|---|---|-------------------|
| | 7812 | 3098 |
| Specific Gravity / Gas Relative Density Accuracy | | Up to $\pm 0.1\%$ |
| Calibration Type | Factory | Customer |
| Operating Range | 0-400kg/m ³ | 0-3 typical |
| Calibration Gas | Nitrogen/Argon | Customer specific |
| Temperature Measurement |  | |
| Temperature Range | -20°C to +85 °C | -20°C to +50 °C |
| Maximum Pressure | 250 Bar g | 7 Bar g |
| Sensor Type | Cylinder | Cylinder |

| | | |
|----------------------|--------------------------|------------------------------|
| Sensor Material | 7812 Nispan C | 3098 Nispan C |
| NACE Approved | Pressure Retaining Parts | |
| Installation Type | Pipe Bypass Loop | Sample Line |
| Frequency Output | ✓ | ✓ |
| 795x Required | ✓ | ✓ |
| Principal Market | Custody Transfer | Gas Quality/Blending |
| Related Calculations | Mass Flow | Wobbe Index, Calorific Value |