LPC 528

APPLICATION EXAMPLES

- Automotive
- Powertrain
- Consumer Goods
- Energy
- HVAC/R
- Medical
- Military
- Other Transportation

DESCRIPTION

- High speed 32 bit processor
- 32 freely programmable measuring programs
- RS232, TCP/IP (Telnet), EtherNet/IP™, and PROFINET as communication interfaces
- External calibration port for automatic calibration routine using calibrated leak standard
- Environmental drift correction
- Data collection & storage of up to 5,000 test results
- Real-time data transmission (0.05 seconds) via RS232
- High resolution 24 bit A/D converter
- Versatile test capabilities including pressure/vacuum decay, differential pressure decay, and occlusion
- Multi-level password protection
- Quick test function to reduce cycle times
- Self-test functions: internal pneumatic leak check, calibration test, transducer zero and span calibration, test regulator adjustment

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Instrument Housing</th>
<th>Benchtop configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10.6” w x 6.7” h x 10.3” d (270 x 170 x 260 mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th>100-240 VAC, 50/60 Hz supply power</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 amps, max.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Air Supply</th>
<th>ISO 8573-1:2010 [2:2:2] Compressed air or nitrogen only</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pilot</th>
<th>55-70 psig (3.7-4.8 bar)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>5-40° C (41-104° F)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Operating Humidity</th>
<th>90% non-condensing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Digital I/O</th>
<th>6 inputs/3 Outputs, 24 V - 1 A max.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Instrument Weight</th>
<th>~12.5 lbs (5.7 kg)</th>
</tr>
</thead>
</table>

HIGHLIGHTS

- Unique auto test setup
- Multilingual software
- RS232, TCP/IP, EtherNet/IP, and PROFINET
- Color graphic display
- Intuitive user interface
- Compact modular design
- Self-test diagnostic verification
LPC 528

DISPLAY
- Vivid, color LCD display with icon menu screen for easy navigation
- Bar graph test results, digital test results, test parameters, test counters, and test statistics
- Displays test specific units of measurement
- Test result lights for "In Test", "Accept", and "Reject"
- Language neutral keypad

INTERFACES
- Communication via RS232, USB, TCP/IP (Telnet), and EtherNet/IP™
- Tooling control for simple applications
- Digital I/O - 6 inputs/3 outputs independently set per part program

ACCESSORIES
- Calibrated test leak & leak simulator
- Vacuum pump
- Filter kit
- CTS Connect® Seals

MEASURING RANGES

<table>
<thead>
<tr>
<th></th>
<th>Pressure Decay</th>
<th>Vacuum Decay</th>
<th>Differential Pressure Decay</th>
<th>Differential Vacuum Decay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Pressure Range</td>
<td>0 to 200 psig</td>
<td>-14.5 to 0 psig</td>
<td>0 to 200 psig</td>
<td>-14.7 to 0 psig</td>
</tr>
<tr>
<td>Test Pressure Control Accuracy</td>
<td>1.5 % FS</td>
<td>1.5 % FS</td>
<td>1.5 % FS</td>
<td>1.5 % FS</td>
</tr>
<tr>
<td>Measuring Range</td>
<td>-1 to 200 psig</td>
<td>-14.5 to 5.8 psig</td>
<td>0 to 5 psig (differential)</td>
<td>0 to 5 psig (differential)</td>
</tr>
<tr>
<td>Measuring Accuracy</td>
<td>± 0.4 % FS</td>
<td>± 0.4 % FS</td>
<td>± 0.006 % FS</td>
<td>± 0.006 % FS</td>
</tr>
<tr>
<td>Resolution</td>
<td>&lt; 98.6 psig: 0.1 Pa</td>
<td>0.1 Pa</td>
<td>0.007 Pa</td>
<td>0.007 Pa</td>
</tr>
</tbody>
</table>

OPTIONS
- Differential pressure or pressure decay manifold
- Electronic or manual pressure regulator
- Externally mounted calibrated leak standard
- Selectable pressure packages
- Selectable transducer ranges

TEST CAPABILITIES
- Pressure/vacuum decay - ΔP
- Pressure/vacuum decay - ΔP/ΔT
- Pressure/vacuum decay - leak standard
- Differential Pressure Decay (ΔP)
- Differential Pressure Decay Leak Rate (DP Test Type Only)
- Differential Pressure Decay Leak Standard
- Occlusion (Back pressure)