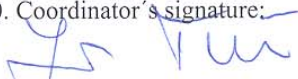


**EUROMET PROJECT  
FINAL REPORT**

1. Ref. No.: 537	2. Subject Field: Mass (Pressure)	
3. Type of collaboration: Interlaboratory comparison		
4A. Partners: CMI, UME (institutions)	4B. CEC funded? No	
5. Participating countries: CZ, TR		
6. Title: Bilateral pressure comparison in the range to 7 MPa		
<p>7. Progress:</p> <p>The comparison measurement in the range 15 kPa to 7 MPa were carried out in three phases:</p> <ul style="list-style-type: none"> <li>i) in the range 15 kPa to 350 kPa at the pressure section of the CMI</li> <li>ii) in the range 0,25 MPa to 1,75 MPa at the pressure section of UME</li> <li>iii) in the range 1 MPa to 7 MPa at the pressure section of UME</li> </ul> <p>Three different gas-operated reference standard were used. For the range 15 kPa to 350 kPa and 0,25 MPa to 1,75 MPa these were piston-cylinder assemblies with ceramic piston and tungsten-carbide cylinder and nominal effective areas of 10 cm<sup>2</sup> respectively 2 cm<sup>2</sup>. For the range 1 MPa and 7 MPa, a piston-cylinder assembly with and tungsten-carbide piston and cylinder and nominal effective areas of 0,5 cm<sup>2</sup> was used.</p> <p>The purpose of the measurements was to compare the effective areas of the Czech and Turkish primary pressure standards in gas media and gauge mode, and confirm the agreement between the pressure scales of the two countries. Since the UME and CMI are participating in different loops of EUROMET Project No. 439, a key comparison of pneumatic pressure, another important goal of this study was establish a cross-link between two loops.</p> <p>The results of his comparison has confirmed the agreement between the pneumatic pressure scales of the CMI and UME. The results was published in Metrologia, 2001, <b>38</b>, 173 – 179.</p>		
<p>8. Coordinator's name:</p> <p style="text-align: center;">Address: Czech Metrological Institute, CMI, Okružní 31, 638 00 Brno, Czech Republic</p> <p style="text-align: center;">Telephone: +420 5 45 22 27 27      Telefax: +420 5 45 22 21 83      E-mail: jtesar@cmi.cz</p>		
8. Completion date: 17 <sup>th</sup> February 2002	<p>10. Coordinator's signature:</p> 	<p>11. Date: 17<sup>th</sup> February 2002</p>

*Notes for completion of the form overleaf*