The system is composed of the unit DMS 680 for the direct measurement of gages and a powerful gage management & measurement software MicroNet. The measurement range can be increased to 1000 mm with a special extension support. The measurement unit and the software are highly integrated so to cover gages measurement and management needs, arising from the application of ISO 9000 series norms. The temperature compensation device guarantee high stability of the results in marginal environmental conditions.

Applications

Main applications of the unit are the inspection of:

- plain plug gage
- plain ring gage
- thread plug gage
- thread ring gage
- workshop slip gage
- snap gage
- pipe thread plug and ring gage
- bore gage
- external micrometer
- internal micrometer
- comparators
- electronic probe
- lever type comparator
- spline gage with involute profile and tooth gage
**Characteristics of DMS 680**

The high accuracy of the DMS 680 measuring system is obtained through the following:

- full respect of the Abbe comparators principle
- Heidenhain scale
- constant measurement pressure
- environmental temperature compensation device
- adjustable work table for inversion point detection
- automatic computer reading system
- gage management & measurement software
- adjustable tips

---

**Technical specifications DMS 680**

<table>
<thead>
<tr>
<th>Reading system</th>
<th>direct PC reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring unit</td>
<td>mm</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1 - 0.01 µm</td>
</tr>
<tr>
<td>Measuring field standard</td>
<td>absolute: 100 mm, 680 mm; differential (external): 0 ÷ 680 mm; external plain: 0 ÷ 680 mm; internal plain: 1 ÷ 480 mm; external thread: 0 ÷ 480 mm; internal thread: 14 ÷ 90 mm</td>
</tr>
<tr>
<td>optional Accessories</td>
<td>internal thread T-sphere: 3 ÷ 90 mm, 90 ÷ 400 mm; internal thread Big Ring: 0.12 ÷ 3.5</td>
</tr>
<tr>
<td>extension</td>
<td>differential (external): 1000 mm; 0 ÷ 40</td>
</tr>
<tr>
<td>Work table</td>
<td>work top surface: 160 x 160 mm; extension table surface: 400 x 100 mm; vertical travel (Z axis): 100 mm; traversal travel (Y axis): 25 mm; tilting (about Y axis): ± 3°; rotation (about Z axis): ± 4°; load capacity: 11 Kg</td>
</tr>
<tr>
<td>Dimensions</td>
<td>(l × d × h) 1.300×400×480 mm</td>
</tr>
<tr>
<td>Weight (basic unit)</td>
<td>110 Kg</td>
</tr>
</tbody>
</table>
Accuracy

The DMS 680 “accuracy” is given in terms of Uncertainty (U95).

<table>
<thead>
<tr>
<th>Uncertainty (U95)</th>
<th>max value in the absolute range: 0.35 µm</th>
</tr>
</thead>
</table>

Environmental conditions with temperature compensation device (included):
- temperature 20 °C ± 2.0°C
- gradient 0.2°C per hour

The environmental temperature compensation device allows the extend the temperature range to 15 ÷ 30°C with a minimum influence on the measurement uncertainty.

<table>
<thead>
<tr>
<th>Uncertainty (U95)</th>
<th>max value in the absolute range: 0.18 µm</th>
</tr>
</thead>
</table>

Environmental conditions with temperature compensation device (included):
- temperature 20 °C ± 0.2 °C
- gradient 0.1°C per hour

Reference standards:

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VDI/VDE 2617</td>
<td>Accuracy of Coordinate Measuring Machines</td>
</tr>
<tr>
<td>BS16808</td>
<td>Coordinate measuring machines: methods for verifying performance</td>
</tr>
</tbody>
</table>

* indicates the DMS 680 uncertainty of measurement with a 95% level of confidence when measuring with radius contact tips a plain external gage whose thermal expansion coefficient is equal to 11.5×10⁻⁶ K⁻¹, in the environmental conditions above indicated.
<table>
<thead>
<tr>
<th><strong>Base unit</strong></th>
<th>Cast iron bed with guide-ways for the measuring head and the tailstock positioning.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measuring head</strong></td>
<td>Built in the full respect of Abbe’s principle, it is equipped with an Heidenhain reading system. The measuring head temperature is compensated through a sensor so to minimize the problems related to the fluctuation of the environmental conditions.</td>
</tr>
<tr>
<td><strong>Tailstock</strong></td>
<td>Equipped with adjustable tips so to allow easy alignment of the tips.</td>
</tr>
</tbody>
</table>
| **Work table** | Adjustable in all directions:  
- vertical travel (Z axis): 100 mm | 4”  
- traversal travel (Y axis): 25 mm | ¼”  
- tilting (about Y axis): ± 3°  
- rotation (about Z axis): ± 4° |
| **Reading system** | Direct on-line reading on the PC screen via Heidenhain board plugged into the PC. |
| **Plain Plug gage and Rod measurement device** | Max length up to 680 mm | 27”  
Plug gage holder \(^1\): gage in horizontal position with maximum diameter 180 mm | 7”  
Radius tips \(^1\): radius 20 mm | 0.79”  
Knife tips large edge: length 8 mm | 0.31”  
Knife tips small edge: length 2 mm | 0.08” |
| **Center cradle** | Max distance between centers 200 mm | 8”  
Max piece diameter 180 mm | 7” |
| **Plain Ring gage measurement device** | Gage diameter 14÷480 mm | 0.55÷19”  
Big contact arms \(^1\): diameters bigger than 45 mm | 2”, max depth 50 mm | 2”  
Radius tips for big contact arms: Ø 8 mm | 0.31”  
Small contact arms \(^1\): diameters bigger than 14 mm | 0.55”, max depth 12 mm | 0.5”  
Special tailstock spindle for small contact arms  
Radius tips for small contact arms: Ø 6 mm | 0.23”  
Small parallels \(^1\): height 20 mm | 0.79”, length 160 mm | 6.29”  
Large parallels: height 45 mm | 1.77”, length 140 mm | 5.5” |
### Standard Equipment of DMS 680

#### Snap gage measurement device
- Cross holder with clamping device
- Big contact arms: min ø 45 mm | 2", max depth 50 mm | 2"
- Small contact arms: min ø 14 mm|0.55", max depth 12 mm|0.5"

#### Small Plain Holes measurement device
- Gage diameter 1÷30 mm | 0.04÷1.2 "
- Mounting table
- Contact tip holder
- Spherical end stylus contact tip: ø 0.8 mm | 0.035"
- Spherical end stylus contact tip: ø 3 mm | 0.12"
- Battery power supply (8 batteries AA – 1.5V each)

#### Thread Plug gage measurement device
- Gage diameter 0÷480 mm | 0÷19 "
- Flat contact tips small size: ø 2 mm | 0.08"
- Flat contact tips medium size: ø 8 mm | 0.31"
- Flat contact tips large size: ø 14 mm | 0.55"
- Calibrated wires holder
- Plug gage holder: gage in horizontal position, max ø 180 mm | 7"
- Set of 21 calibrated wires terns
  - millimeters | inches: 0.170|0.00669, 0.195|0.00767, 0.220|0.00866, 0.250|0.00984, 0.290|0.01141, 0.330|0.01283, 0.390|0.01538, 0.455|0.01791, 0.530|0.02086, 0.620|0.02440, 0.725|0.02854, 0.895|0.03523, 1.100|0.04330, 1.350|0.05315, 1.650|0.06496, 2.050|0.08070, 2.550|0.10039, 3.200|0.12598, 4.000|0.15748, 5.050|0.19881, 6.350|0.25000

#### Pipe Thread Plug gage measurement device
- To inspect external taper thread gage (software/height dev not included – see options). As per straight thread plug gage (see above): flat contact tips and calibrated wires.

#### Thread Ring gage measurement device
- Gage diameter 14÷90 mm | 0.55÷3.55"
- Floating table with clamping device
- V-type gage blocks 55° and 60° angle
- Big contact arms: min ø 45 mm | 2", max depth 50 mm | 2"
- Spheres for big contact arms (couples):
  - ø 0.8 mm | 0.00314" short
  - ø 0.8 mm | 0.00314" long
  - ø 1.35 mm | 0.05315"
  - ø 1.8 mm | 0.07086"
  - ø 2.3 mm | 0.09055"
  - ø 3.1 mm | 0.12204"
- Small contact arms: min ø 14 mm|0.55", max depth 12 mm|0.5"
- Spheres for small contact arms (couples):
  - ø 0.8 mm | 0.00314" short
  - ø 0.8 mm | 0.00311" long
  - ø 1.35 mm | 0.05315"
  - ø 1.8 mm | 0.07086"
  - ø 2.3 mm | 0.09055"

#### Workshop gage block measurement device
- Small parallels: height 20 mm | 0.79", length 160 mm | 6.29"
- Radius tips: radius 20 mm | 0.79"
- Clamping device
### External Micrometer Measurement Device
- Micrometers up to 300 mm | 12”
- Micrometer table
- Contact arm
- Spherical end contact tip: ø 4 mm | 0.16”
- Spherical end contact tip: ø 12 mm | 0.47”
- Flat contact tip: support length 120 mm | 4.7”

### Internal Micrometer Measurement Device
- Micrometers up to 600 mm | 24”
- Travel 100 mm | 4”
- Gage support
- Flat contact tips medium size: ø 8 mm | 0.31”
- Radius tips: radius 20 mm | 0.79”

### Assembling Device for Gage Block – Small
- For gage block build-ups to tot length 120 mm | 4.7”

### Assembling Device for Gage Block – Large
- For gage block build-ups to tot length 220 mm | 8.6”

### “V” Bearing Device
- Double side "V" bearing, adjustable: 12-400 mm | 0.47-15.7”
- Used to hold rod, internal micrometer and extension bar.

### Spline with Involute and Tooth Gage Measurement Device
- To measure inside and outside gages with involute profile (software not included – see options)
- Floating table with clamping device
- Small and Big contact arms with spheres
- Calibrated wires

### Indicator Lever Type Probe and Electronic Probe Measurement Device
- Travel 100 mm | 4”
- Indicator holder with mounting diameters 8 mm and 3/8”
- Support table
- Flat contact tips medium size: ø 8 mm | 0.31”

### Bore Gage Measurement Device
- To measure the travel of the movable anvil
- Gage holder

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*component common to other devices, included in the standard equipment.*
### Computer

**PC and Monitor**
- PC IBM compatible.
- PC spec might change upon availability. Minimum characteristics are:
  - Core 2 Duo 2 GHz, 512 Mb Ram, 60 Gb HD, Keyboard, Mouse.
  - DVD reader, no-floppy, Windows XP authentic preloaded on the PC (no media), USB 2.0, Graphic accelerator, Ethernet integrated, Smps 230W.
- Monitor 17” LCD with flat screen
- Reading Heidenhain board integrated in the PC

**Operating System**
- Windows XP in English.

**Printer**
- A4, 1200 dpi

**Documentation**
- Instruction books DMS 680 in English.

### Temperature compensation device

**Temperature sensor**
- Built into the measuring head, it reads the DMS 680 measuring element temperature so to compensate the environment in the range of 15 ÷ 30°C | 60 ÷ 85 °F.

**Software**
- Direct reading and compensation of the DMS 680 temperature with 0.01°C | 0.01°F resolution
The DMS 680 measuring system is supplied with software MicroNet to Manage and Measure gages. Works in Windows environment and is supplied in English (other languages available upon request – please enquiry for details).

### Management Software
Allows to manage and store solid gages and instruments, creating for each of them a detailed file, listing all main characteristics.
Main features are:
- automatic tolerances calculation for gages;
- instrument inspection plan includes Visual Inspections (qualitative tests) and Dimensional Inspections (quantitative tests);
- listing criteria and sorting functions (ex. For due date, location, type, dimension, etc.); possibility to export data in various format between which Word, Excel, PDF or other.
- solution to ISO 9000 requirements: complete measurement traceability, easy finding of the gage into the structure;
- master gage management with automatic due date notification;
- visualization of standards and procedures during the measurement;
- cost centers to monitor the "cost of the quality”;
- active management of the gage states (in use, non-in use, reparation, lost, etc.);
- works in network environment.

### Measurement Software
The DMS 680 measuring system is directly integrated with the software allowing fast and reliable measurements. Main features:
- on screen direct reading of the current measurement value
- solid gage measurement procedures (plain plug and ring, thread plug and ring, snap gage, reference gage, rod, etc.)
- instruments measurement procedures (indicators, lever type indicator, probe, bore gage, external micrometer, internal micrometer, depth gage, vernier caliper, etc.)
- automatic detection of the inversion point;
- automatic formulae evaluation for the pitch diameter for thread gage;
- automatic evaluation of the instrument limits in terms of $F_u$ (hysteresis), $F_{max}$ (max error), repeatability and of the gage state in relation to its tolerances.

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The module includes automatic tolerances calculation for gages according to following standards (for other standards see software options):

**Plain gage ISO-Metric**
- ISO/R - 1938
- ISO 286

**Thread gage ISO-Metric**
- ISO 965/1
- ISO 1502
Standards for setting-up of outside measurements (0-1000 mm)

No. 5 gage blocks grade “0” with SIT certificate (or equivalent)
Dimensions: 200- 400- 600- 800- 1000 mm

Standards for setting-up of inside measurements (1-300 mm)

No. 4 rings with SIT certificate (or equiv.)
Dimensions: 14- 50- 80- 200 mm

Terms & Conditions

Packaging
The DMS 680, its accessories and the computer are delivered in a special packaging. We recommend to store the packaging so to be used for any future transportation.
The DMS 680 shall not be moved without the original packaging and the assistance of Microrep authorized personnel, otherwise the warranty is voided.

Installation
The installation of the DMS 680, its accessories and the computer (including the software) shall be done by Microrep authorized personnel only, otherwise the warranty is voided.

Other conditions as per Microrep standard “Terms and Conditions of Sale” Agreement.
### Optional Equipment

<table>
<thead>
<tr>
<th><strong>T-sphere</strong></th>
<th>Thread Ring gage measurement device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage diameter 3÷90 mm</td>
<td>0.12÷3.5 &quot;</td>
</tr>
<tr>
<td>Mounting table</td>
<td></td>
</tr>
<tr>
<td>Floating device with vertical movement</td>
<td></td>
</tr>
<tr>
<td>Inductive lever probe</td>
<td></td>
</tr>
<tr>
<td>Digital readout with analogue and numeric display, resolution 0.1 µm</td>
<td>0.000005 &quot;</td>
</tr>
<tr>
<td><strong>T-sphere</strong> - 8 couples:</td>
<td></td>
</tr>
<tr>
<td>millimeters/inches:</td>
<td>0.335/0.01318, 0.455/0.0179, 0.530/0.0208, 0.620/0.0244, 0.725/0.0285, 0.895/0.0352, 1.100/0.0433, 1.350/0.0531.</td>
</tr>
<tr>
<td>Other spheres available on request.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Pipe Thread Ring gage measurement device</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>To inspect internal taper thread gage (Height device and software not included – see options). As per straight thread ring gage (see above) with T-sphere (see above).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Gage block holder</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Specially designed for large gage blocks calibrations (max 1000 mm), the extensible table can hold up to two gage blocks on the Airy’s points. “V” type supports and clamping device are also provided.</td>
</tr>
</tbody>
</table>

### Optional Modules for MicroNet Software

<table>
<thead>
<tr>
<th><strong>ANSI/ASME tolerance module</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic tolerances calculation and measurement formulae for gages according to:</td>
</tr>
<tr>
<td>Plain gage ANSI-Inch</td>
</tr>
<tr>
<td>ANSI/ASME B89.1.6M-1984</td>
</tr>
<tr>
<td>Gagemaker’s Tolerance Chart</td>
</tr>
<tr>
<td>Thread gage ANSI-Inch</td>
</tr>
<tr>
<td>ANSI/ASME B.1.1-1982</td>
</tr>
<tr>
<td>ANSI/ASME B1.2-1983</td>
</tr>
<tr>
<td>ANSI/ASME B1.13M (ISO 965-1)</td>
</tr>
<tr>
<td>ANSI/ASME B1.16M-1984</td>
</tr>
<tr>
<td><strong>Pipe thread gage</strong></td>
</tr>
<tr>
<td>Automatic tolerances calculation and measurement formulae for taper thread gages according to:</td>
</tr>
<tr>
<td>Pipe gage ANSI-Inch</td>
</tr>
<tr>
<td>ANSI/ASME B.1.20.1-1983</td>
</tr>
<tr>
<td>ASME B1.20.5-1991</td>
</tr>
</tbody>
</table>
TERMS AND CONDITIONS OF SALE

1. DEFINITIONS. For the purpose of this Agreement, the following definitions shall apply:

a) Microrep: Microrep p.z.a S. Ambrogio 12, 00090 – Segrate (MI) - Italy.

b) Products: The equipment, parts, accessories and services to be sold by Microrep to Buyer as listed on the face hereof.

c) Buyer: The person or entity listed on the face hereof who is purchasing the Products and such person's or entity's heirs, executors, administrators, successors by merger or consolidation, or permitted assigns;

d) Party and/or Parties: Microrep and the Buyer are sometimes referred to herein individually as a Party and collectively as the Parties.

2. PRECEDENCE. In the event of any conflict or inconsistency between the terms and conditions set forth in any purchase order or other communication of Buyer, to which notice of objection is hereby given by Microrep, Microrep's acceptance of such purchase order is limited to these terms and conditions and is expressly made conditional on Buyer's assent to these terms and conditions. Acceptance by Buyer of the Products or any portion thereof shall not be deemed or construed as acceptance by Microrep of Buyer's additional or different terms and conditions.

3. PRICE. Unless otherwise indicated on the face hereof, prices shown (i) do not include any additional fittings or adjustments, and (ii) are net prices E.X.W. Segrate (MI) or Italy or such other point as designated by Microrep, exclusive of delivery and installation charges including, without limitation, rigging and transportation charges, the cost of any transit insurance and the cost of installation. Any tax, fee, levy, assessment, imposition or other charge imposed by any local, state or federal government now or hereafter levied upon the production, sale, use, import, export, ownership or shipment of the Products, shall be paid for by Buyer (except for taxes on Microrep's net income).

4. CLAIMS FOR DAMAGE IN TRANSIT. Microrep's responsibility shall cease upon delivery of the Products to the carrier E.X.W. Segrate (MI)-Italy or such other shipping point as designated by Buyer. Buyer shall examine all Products carefully immediately upon delivery and before signing any receipt. If the Products are visibly damaged or there is reason to believe that the Products have been damaged or shortage, Buyer shall note same on the receipting slip and file a claim with the carrier within two (2) days of receipt of delivery. Buyer's signature on a receipt without notation of damage or shortage or Buyer's failure to send notice to Microrep of damage or shortage within such two (2) day period shall constitute conclusive evidence of Buyer's receipt of the Products in satisfactory condition. All risks of loss or damage to the Products is assumed by Buyer after delivery. Buyer's sole remedy in the event that any delivery of Products is delayed shall be to cancel this Agreement by notice received by Microrep prior to shipment. Said remedy may only be exercised in the event that delivery of Products is delayed more than sixty (60) days beyond the delivery date stated in the acknowledgment.

5. FOCAL MAJUER. Microrep shall not be liable to Buyer for any delay or failure by Microrep to perform its obligations hereunder when such delay or failure is directly or indirectly due to (a) failure or mistake in manufacture or otherwise, (b) strikes, work stoppages, sabotage, accidents, unusually severe weather conditions, or war, (c) acts or omissions of carriers, railroads, or other persons or entities exercising due care, (d) acts of God, such as fire, flood, earthquake, or crop failure, (e) acts or omissions of government, whether voluntary or involuntary in character, or (f) acts or omissions of any other party, provided however, that Microrep may, without the consent of Buyer, assign its rights and transfer its obligations under this Agreement to any corporation which is a parent, subsidiary or affiliate of Microrep.

6. FORCE MAJUER. Microrep may, at its option, cancel this Agreement or delay performance hereunder for any period reasonably necessary due to any of the foregoing, during which time this Agreement shall remain in full force and effect.

7. ACCEPTANCE. Buyer shall be deemed to have accepted the Products upon the earlier of (a) delivery to Buyer, if installation by Microrep is not included in the purchase price, or (b) Buyer's written acceptance due to the Products having been ordered by Buyer. The receipt of sentence if the Products is required to be prescribed Microrep's specifications, if installation by Microrep is included in the purchase price; (c) utilization of the Products or any portion thereof by Buyer for any purpose.

8. PAYMENTS. Payment terms will be strictly enforced on all accounts. Amounts past due are subject to service charge at the maximum rate of interest permitted by law until paid. All direct or indirect cost related to or arising from the return of the Products have been made without the prior written consent of Microrep, (v) the Products has not been subject to unusual physical or electrical stress, misuse, abuse, negligence or accident.

9. INSOLVENCY. As except as may be prohibited by law, in the event that Buyer becomes insolvent or unable to pay its debts as they become due, or in the event of any voluntary or involuntary bankruptcy proceedings by or against Buyer, or appointment of a receiver or bankruptcy by Buyer for the benefit of its creditors, Microrep may, at its option, cancel any of its obligations hereunder and all obligations of Buyer to Microrep, whether arising out of this Agreement or otherwise, shall immediately become due and payable in full.

10. LIMITED WARRANTY. 10.1 Microrep warrants that the Products are free from defects in material and workmanship. Upon notice of any defect in material and workmanship, Microrep shall have the right to inspect the Products and to investigate all claims for the purpose of determining whether the Products are defective. If Microrep determines that the Products are defective, Buyer shall return the Products to Microrep at Buyer's expense. Buyer shall have the right either to replace or repair any defective Products, Microrep's liability, and Buyer's exclusive remedy, for defective Products shall be limited solely to such repair or replacement. No Products shall be returned to Microrep without Microrep's prior written consent.

10.2 Reparation or replacement of the Products or any of its parts during warranty period will be done exclusively in Italy, EXW Segrate (MI)-Italy. Transportation costs or any other direct or indirect cost related to or arising from the return of the Products in Italy and or to the Buyer, are at Buyer's own charge, including but not limited to the delivery cost, custom duty, tax and insurance cost.

10.3 Subject to the foregoing, the warranty contained herein shall, with respect to any particular defect, be conditional on (i) Buyer's substantiation that the Products have been maintained, stored and operated in accordance with such instructions as are given by Microrep to Buyer and with standard industry practice and have not been damaged as a result of negligence, improper handling or accident, (ii) Buyer's payment of all invoices for the Products or other charges to which Microrep may be entitled, (iii) Buyer's exclusive use of persons approved or authorized by Microrep to effect any repairs to the Products, (iv) Buyer's substantiation that any modification or alteration of the Products have been made without the prior written consent of Microrep, (v) the Products has not been subject to unusual physical or electrical stress, misuse, abuse, negligence or accident.

10.4 Different warranty terms are incorporated herein if noted on the face hereof. Such different warranty terms supersede the terms hereof only to the extent that they are inconsistent herewith.

10.5 THE WARRANTY CONTAINED IN THIS SECTION IS IN LieU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE. Microrep warrants that the Products are free from defects in material and workmanship for 12 months from the date that the Products are shipped by Microrep, unless a different warranty period shall be stated on the face hereof.

10.6 The warranty terms are incorporated herein if noted on the face hereof. Such different warranty terms supersede the terms hereof only to the extent that they are inconsistent herewith.

11. RETURN OF MERCHANDISE. Microrep shall not accept any return of the Products unless previously authorized by Microrep in writing, whether under warranty or otherwise. Any returns other than under warranty will be subject to a reasonable restocking charge. All direct or indirect cost related to or arising from the return of the Products shall be Buyer's own charge.

12. NOTICES. All notices, consents, requests, instructions, approvals and other communications hereunder shall be in writing and given by certified mail, return receipt requested, or by express delivery service addressed to Buyer or Microrep as shown on the face hereof or to such other address as any party hereof may, from time to time, designate in writing. No notice, consent, request, instruction, approval or other communication shall be given by telephone, facsimile, telex or other similar form of transmittal.

13. APPLICABLE LAW. This Agreement shall be governed by and construed under the laws of the Italy, court of Milan.

14. AGREEMENT TO DISPUTE TO BE SUBJECT TO JURISDICTION IN THE FORM OF MILANO, ITALY for the resolution of any dispute arising directly or indirectly from this Agreement.

15. ENTIRE AGREEMENT. This writing is intended by the parties as a final expression of their agreement and as a complete and exclusive statement of the terms. This writing supersedes all prior communications, representations or agreements, whether oral or written. No representations, understanding or agreements have been relied upon in making this Agreement other than as specifically set forth herein. This agreement can only be modified in a writing signed by the parties hereto.

16. NO WAIVER. Failure or delay by Microrep in seeking enforcement of any term or condition hereof at one time shall not constitute a waiver of the right to enforce such term or condition in the future, nor Microrep's right of enforcement hereof at any time or other term or condition hereof.

17. SEVERANCE. If any part of this Agreement is held to be invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

18. ASSIGNMENT. No assignment of rights or transfer of obligations under this Agreement shall be made by Microrep or Buyer without the prior written consent of the other party, Provided however, that Microrep may, without the consent of Buyer, assign its rights and transfer its obligations under this Agreement to any corporation which is a parent, subsidiary or affiliate of Microrep.

19. ORIGINAL TEXT. The text of this Agreement is written in English language and is composed of two pages. English language has been elected by the Parties for the sole purpose of communication.