

# The *ModCon* Mode Controller

Manufactured by



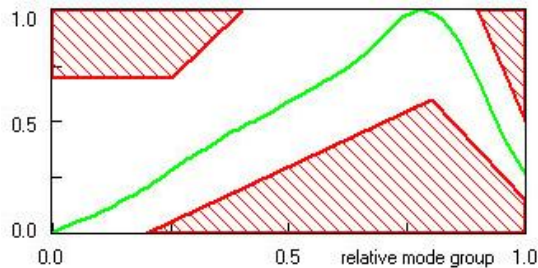
Connect a *ModCon* to your light source and

- Improve your measurement accuracy
- Ensure stable launch conditions for multimode fibre measurements

Measurements of loss and bandwidth in multimode fibres are known to be highly dependent on the modal condition of the light source used for the measurement. For example, OTDR and LS/PM loss measurements can differ significantly simply because an OTDR uses a laser source and not an LED.

Now there is a way to dramatically improve agreement AND ensure you meet international standards at the same time - the *ModCon*. The *ModCon* is a passive device which ensures that the correct launch conditions are achieved independent of the light source used. This results in more accurate measurements, better agreement between different test sets, and compliance with the ISO/IEC 14763-3. Every *ModCon* is tested using an MPX Modal Explorer to ensure that its output meets the standard regardless of the modal distribution of the input.

Simply fit the *ModCon* between the test set and the Fibre Under Test.



**Typical Mode Power Distribution of ModCon with 50um fibre (green) showing draft IEC template (red) Measured in accordance with IEC61300-3-43**

## Technical Specification

- Conforms to ISO/IEC 14763-3
- Operates at 850nm and 1300nm
- Dimensions 100 x 50 x 25 mm plus 1.5m input and output tails
- Insertion loss at 850nm  
50um typically < 3.0 dB  
62.5um typically < 3.0 dB

## Ordering information

To order a ModCon use a product code of the form below

**MC XX DD**

where XX is connector type SC, FC, LC or ST  
DD is fibre core size 50 = 50 um core  
62 = 62.5um core

a) standard ModCons have 1.2m input tail and 1.5m output tail.

b) other connector types available on request

For specials or OEM units contact Arden Photonics Ltd

## For world-wide sales contact

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