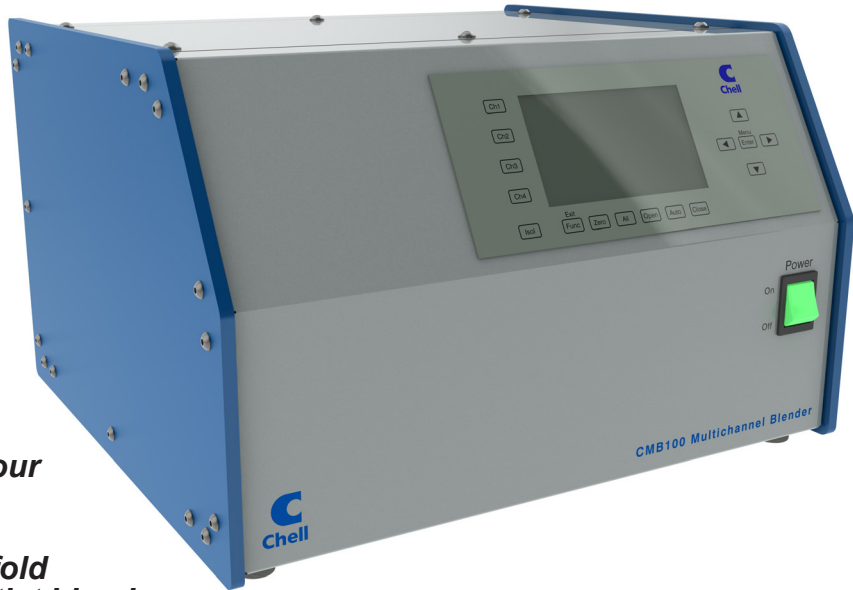


Chell Multichannel Blender

- **Two, three or four channel versions as standard**
- **Very wide range and control turndown**
- **On-board and web-server interfaces**
- **0.5% of reading flow accuracy**
- **High resolution colour LCD display**
- **High integrity manifold and valves, with outlet blend chamber**



Chell's CMB is a high accuracy multi channel gas mixer available with two, three or four channels.

Each channel is configurable for any full scale between 5 cc/min and 20 l/min (N2 equivalent), each providing 0.5% of reading flow accuracy as standard, and each channel has wide 200:1 control turndown. This range-ability, high accuracy and very wide control performance provides excellent blend turndown and sensitivity.

Interfacing with the unit is simple, either via the high resolution LCD front panel and intuitive menu, or via the on-board web server, where a PC can be connected via an Ethernet cable and a web browser used to read, control, set up and perform diagnostic/calibration functions.

A stainless steel high integrity manifold and a high specification isolation valve per channel ensure both internal (channel interference) and external (to atmosphere) leak integrity. A blend chamber in the outlet line ensures gases are fully mixed before leaving the unit on the CMB outlet port. Mechanical interfaces are 1/4" Swagelok® as standard.

A purge function ensures there are no residual gases remaining within the manifold on completion which could compromise the purity of the next blend. Each channel can be operated individually with a flow rate set point or as a combination by setting the required blend ratio.

Variants suitable for many corrosive gases can be offered, along with alternative fitting types and higher full scale ranges.

For complete confidence in your blends Chell can supply the blender with full ISO17025 (UKAS) calibration certification, performed in our highly regarded flow, pressure and vacuum calibration laboratory (0687).



CMB10xSpecifications

Mass flow repeatability/linearity/hysteresis, per channel	0.5% of reading
Channels:	Two (CMB102) / Three (CMB103) / Four (CMB104)
Flow Range:	Per channel, any full scale between 5 cc/min and 20 l/min (N2 equivalent)
Integral Display:	Full colour LCD with membrane button interface
Remote Communications:	10/100 Base-T with embedded web server for set up and operation
Warm up time to full accuracy:	30 minutes (assumes instrument already stabilised at ambient conditions)
Power Supply:	90-240Vac on IEC320 connector
Gas interfaces:	1/4" Swagelok ® compression fittings (others on request)
Operating Temperature Range:	+15°C to +40°C
Storage Temperature Range:	-20°C to +70°C
Maximum Relative Humidity:	95% at 50°C

