The new B700 and B800 variometers.

Originally the design of these new variometers began in September 2010 with the idea to build a digital averager display into the B400 variometer. Many thanks to the pilots who have provided input and opinion on the features and functionality of these new instruments which has resulted in the considerably advanced features and functionality over the first concepts.
The B700 and B800 are now in production and being delivered, customer response is very positive.
Both instruments have considerable hardware commonality with the B400/B500 and with each other.

The main features of the new instruments are:
- Unique lift trend displays and warnings, both audio and visual
- expanded scale in low range (+/- 2 knots or +/- 1 M/s)
- compressed in high range (+14 knots or +7M/s maximum indication), catering
  for all lift strengths without switching,
- better sensitivity (pointer movement per lift unit) in mid range than typical mechanical vario or LCD vario
- expanded audio sensitivity in low climb range
- digital display never obscured by pointer while climbing
- high contrast, high resolution stepper motor driven white pointer against black background - LCD pointers cannot compare!

- bright, clear colour LED indicators
- innovative and informative audio
- Running average (AVERAGER) and total climb average(INTEGRATOR)
- only one instrument of each size (57mm and 80mm), easily field changeable for knots or metric calibration.
- clear labelling of switch functions
- B700 has standard low cost emergency power pack
- A capacity flask free replacement for mechanical variometers and far and away more useful
- B800 includes airspeed sensor and is designed for interfacing to Oudie or other PNA/PDA type glide computers. Only one instrument hole required for B800 (57mm or 80mm)
- *Optional* soaring optimised 4 Hz GPS on B800 (same as B500GPS: 4 fixes/second))
- *Optional* B800 "up front", convenient, control/display unit with internal navigation, glide and wind computer display (GCD)(same as B500)
- future sensor technology under development for B800, interface already built in(wind vector estimation and horizontal gust elimination)
- common repeater to both instruments includes controls
- Robust mechanical and electronic design
- glass front, not plastic
- field proven hardware and software, extended
- proven field reliability
- builds on over 5 years of B400/B500 production and over 30 years of pressure transducer variometer production
- thousands of variometers in use worldwide
- same company, same owners
- designed and manufactured by a former championship soaring team and a software developer with soaring experience.

Borgelt
variometers
it's what we do

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