

Metrol's World Firsts

- 1989 1 Highest temperature rated electronic memory gauge
Birth of **SALAMANDER™**
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- 1993 2 Wireless transmitted messaging using e-line to contact pressure gauges below a tester valve
Birth of the **TRICS™**
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- 2001 3 Wireless transmitted messaging between two repeater stations enabling full surface to bottom hole communication
Birth of the **PARAGON™**
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- 2003 4 Wireless retrofit installed in a producing well
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- 2004 5 Wireless activation of downhole samplers
Birth of **ORIGIN™**
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- 2005 6 Complete wireless transmission from downhole to surface in a deepwater DST environment
Birth of **TRITON™**
- 7 Wireless activation of a downhole sliding sleeve
Birth of **FLOW-SURE SS™**
- 8 Wireless system installed in a producing well
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- 2007 9 Wireless data retrieved from annular spacing between casings – 'B' and 'C' annulus
Birth of **SENTINEL-AM™**
- 10 Wireless data retrieved from a temperature array tool
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- 2009 11 Production data transmitted from downhole to surface via a deep water X-Mas tree
Re-Birth of **TRITON™**
- 12 Wireless activation of a sliding sleeve enables multi-zone testing on a single DST string
Re-Birth of **FLOW-SURE MC™**

- 2010 13 Wireless data retrieved from a load sensor and an accelerometer installed in a DST string
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- 2012 14 Wireless data retrieval transmits over half a million data points using a battery powered system downhole
- 15 Wireless data retrieval system transmits over a triple suspension zone
- 16 Wireless acoustic correlation of a toolstring, eliminates the need for wireline
Birth of **DEPTH-LOC™**
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- 2013 17 Successful wireless detonation of explosive BOP system in deepwater GOM
- 18 Five consecutive zone wireless depth correlations for removing the need for well intervention
Re-Birth of **DEPTH-LOC™**
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- 2014 19 A thermal image of the production profile is wirelessly retrieved from sensors located on the TCP guns
Birth of **PRO-LOG™**
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- 2015 20 **PRO-LOG™** enables simultaneous measurement of flow from a two zone DST
- 21 Wireless detonation of TCP guns
Birth of **CROSS-FIRE™**
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- 2016 22 A hybrid of EM and acoustics enables wireless transmission from multiple locations during a live DST
Birth of **PARAGON-EM™**
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- 2017 23 Transparent links between multiple EM, acoustic and sonar systems, demonstrates operational flexibility in deepwater high cost environment
- 24 Wireless actuation of a ball valve below a retrievable packer during a DST
Birth of **FLOW-SURE BV™**