

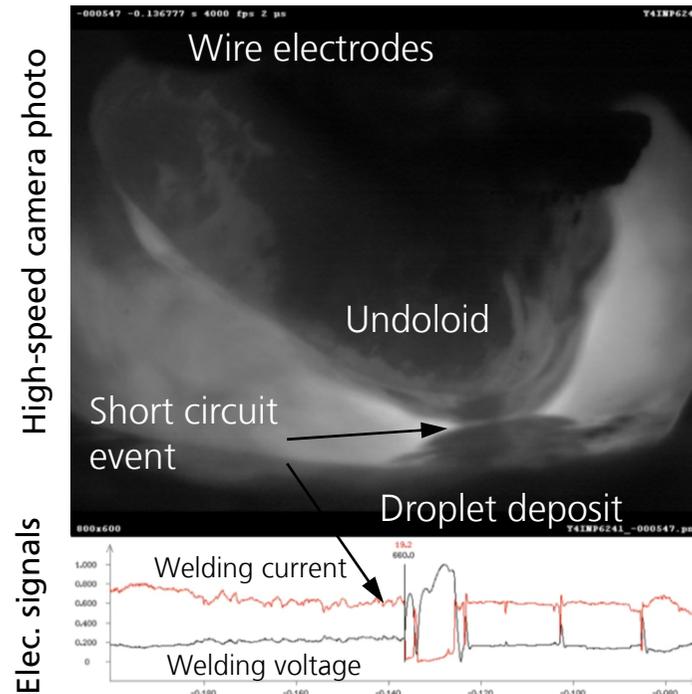
WeldAnalyst

Technical data

- Modular system WeldAnalyst S3 to record electrical signal characteristics when welding
- Sampling rate up to 100,000 Hz
- 8 analog inputs
- 4 counter inputs for the direct recording of speeds
- Synchronisation of electrical signals/ high-speed camera

Measuring configuration

- Two Hall sensors for measuring range 1,500 A, 100 V (HKS-P 1500-S3)
- One Hall sensor for measuring range 1,000 A, 100 V (HKS-P 1000-S3)
- Incremental encoder for filler wire speed (2 x HKS filler wire sensor DV 25 UP 3-5 mm S3, 1 x HKS filler wire sensor DV 25 ST MSG/TIG)



Areas of use / applications

- Linking high-speed camera observation /electrical process behaviour of arc welding processes
- Correlation between transient electrical signal characteristics and weld seam irregularities



High-speed camera photograph during submerged arc welding (top left) with synchronised electrical signals (bottom left), HKS measuring equipment (right)