

# ISO/TR 18491:2015-05 (E)

## Welding and allied processes - Guidelines for measurement of welding energies

---

| <b>Contents</b>   |   | <b>Page</b> |
|---|---|-------------|
| Foreword .....  |   | iv          |
| Introduction .....  |   | v           |
| 1   | Scope .....   | 1           |
| 2   | Normative references .....                                | 1           |
| 3   | Terms and definitions .....                               | 1           |
| 4   | General .....   | 2           |
| 5   | Apparatus .....   | 2           |
| 6   | Determination of arc energy .....                         | 2           |
| 7   | Measurement parameters .....                              | 3           |
| 7.1   | General .....   | 3           |
| 7.2   | Arc voltage .....   | 3           |
| 7.3   | Welding current .....                                     | 4           |
| 7.4   | Instantaneous energy or instantaneous power .....         | 4           |
| 7.5   | Travel speed and length .....                             | 4           |
| 8   | Calibration and validation of measuring instruments ..... | 4           |
| Annex A (informative) Range of power supply types and measurement methods ..... |   | 5           |
| Bibliography .....  |   | 7           |