

**Spotron™**

# *AMS - 105S* WELDING MONITOR

FOR GENERAL RESISTANCE WELD



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# Welding Monitor

Model **AMS - 105S**

## Outline:

AMS-105S is automatic monitor of secondary current and welding time for resistance welding machine. Secondary current and welding time is measured and indicated in the display, at the same time signal output is done for the result of judging safe or failure. It supports many functions with external input/output terminals such as output of voltage (AC100V) for NG alarm, change of welding parameters, detection of no current, etc.

## Features:

- (1) Setup of upper/lower limit (allowable range) of secondary current and welding time.
- (2) Covering many patterns to set up measuring conditions (Max. 16 patterns).
- (3) Point of displaying the measurement value is arbitrarily specified per 0.5 cycles.
- (4) Measuring current can be selected in case of multi-impulse welding. (IMPULSE No.)
- (5) Set up of NG judging for no current by inputting start signal from external device.
- (6) Colored indication in the display for OK/NG judgment:  
"GREEN" = OK (within allowable range), "RED" = NG (out of allowable range)
- (7) Measured data in the display can be printed out by digital printer DP-110H (option).

## Specification:

| Item                     |                      | Contents   |
|--------------------------|----------------------|--|
| Current                  | Measurement range    | 0.5 kA - 99.9 kA   |
|                          | Measured value       | Average effective (RMS) / Peak current (MAX) / Specified cycle   |
|                          | Measurement accuracy | ± 2 % Full scale   |
| Time                     | Measurement range    | 0.5 cycles to 999 cycles   |
|                          | Measured value       | Cycle of all welding time  |
|                          | Measurement accuracy | ± 0.5 cycle  |
| Impulse selection        |                      | All welding pulses / Specified pulse ( 1 - 9 )   |
| Condition setting        |                      | Max. 16 patterns   |
| Display                  |                      | 3-digit 7-segment 2-color LED  |
| External input signal    |                      | No current detection - valve signal terminals (AC100-120V),<br>Condition setting - condition selection terminals                                 |
| External output signal   |                      | NG voltage - outputting AC100V same as power source<br>OK/NG signal - relay terminals (1A output each from NO/NC)<br>Printer output - Centronics |
| Temp. operated condition |                      | 0 - 40   |
| Power supply             |                      | Single-phase AC100-120V, 50/60HZ   |
| Dimensions               |                      | 84(W)×220(H)×240(D) mm   |
| Weight                   |                      | 2.2kg (Body) / Approx. 2.9kg (Including Accessories)   |
| Accessory                |                      | Toroidal coil (to be selected from PU-400 or PU-600, PU-800 ),<br>AC power cable, Instructions manual  |

**Option: Printer, Memory box SCF-50 (RS-232C output terminal is required additionally)**  
**Toroidal coil PU-400L ( 130), PU-600L ( 190), PU-800L ( 260), PU-950L ( 300)**

**Note: Special order on request for three phase / inverter current, Changes of measuring range, AC200V power source, RS-232C output, etc.**

[May change without the preliminary announcement of a part of appearance and specification by product improvement etc. ] 2011.04

Manufacturer Specialized in the measuring equipment for resistance welding

Distributor

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