

**To our customers**

Schlieren, July 2016 / Jac Updated, Schlieren, January 2017 / Tra

**Announcement – switching generations from U2-Guard to U2-Guard.2**

Dear Ladies and Gentlemen,

We are writing to let you know that Schlatter is switching over from U2-Guard to the new **U2-Guard.2** generation. Introduced in 1996, these safety components were originally integrated in your Schlatter welding plant.

Like its predecessor, the new **U2-Guard.2** provides protection from deadly shocks which can potentially occur on secondary side of the welding transformers as a result of faults such as cable failures on the primary side or short circuits/blow-outs in the transformer.

The **U2-Guard.2** features a 2-channel design and completely redundant detection, analysis and action. The device is able to monitor the system for correct wiring and is fail-safe in itself. The **U2-Guard.2** has been type-tested in accordance with EN ISO 13849-1 (Corresponds to *SIBE* Schweiz EC type-examination no.1388). The components of the previous U2-Guard are still available to a limited extent.

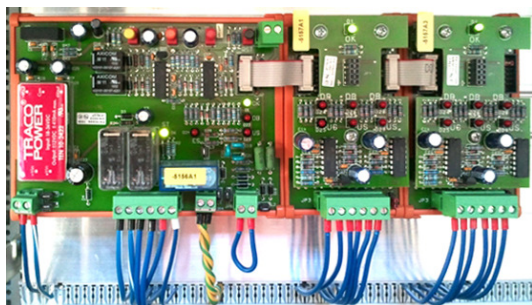


Figure 1: U2-Guard (Previous)



Figure 2: **U2-Guard.2** (New generation)

**1 Compatibility**

The **U2-Guard.2** is fully compatible with the predecessor and is installed in the control cabinet instead of the preceding U2-Guard. Just as before, the **U2-Guard.2** is comprised of a basic module and at least one extension module. Each extension module allows for one to three welding transformers to be monitored. For the electrical connection (measuring line) of the **U2-Guard.2** to the transformers, there are two alternatives available.

<p><b>Version A</b> (Using the existing measuring lines of the U2-Guard)</p>	<p>The previous measuring lines are retained; the <b>U2-Guard.2</b> is able to detect measuring line failures.</p>
<p><b>Version B</b> (Measuring line upgrade; this option ensures complete protection)</p>	<p>The previous measuring lines are replaced with measuring lines of the new generation. These allows the <b>U2-Guard.2</b> to check if the measuring lines are correctly connected and free of short circuits, in addition to checking for measuring line failures.</p>

## 2 Replacing the components

The components can be replaced by a technician in just a short amount of time, since a general wiring diagram is included in the modification kit. The electrical diagram for the plant will be provided to you in digital format once you've notified Schlatter of the modification and the appropriate adjustments have been made to the diagram.

Upon request, a Schlatter service technician can implement the **U2-Guard.2** modification. One advantage this offers is that the installed components will be tested using an appropriate test unit to ensure they are triggered by overvoltages. Another advantage is that Schlatter will issue a corresponding certificate, allowing the customer to prove to third parties that the plant is protected from electrical failures.

no.	U2-Guard.2 components	Article no.	Comments
1	Complete modification kit 24VDC (1xU2-Guard.2 basic module + 1xU2-Guard.2 extension* + reference cable + general diagram/modification instructions + small parts)	1153929	When ordering, please indicate if you need additional extension modules (no. 3).
2	Complete modification kit 230VAC (1xU2-Guard.2 basic module + 1xU2-Guard.2 extension* + reference cable + power pack + general diagram/modification instructions + small parts)	-	If the U2-Guard is supplied with 230VAC, please contact us to discuss the new wiring.
3	U2-Guard.2 extension module*	1130722	Spare part for no. 1 and no. 2; Replaces the previous U2-Guard extension module, art. no. 41.01.736
4	U2-Guard.2 basic 24VDC	1130721	Spare part for no. 1; Replaces the previous U2-Guard basic module for 24VDC, art. no. 41.01.960
5	U2-Guard.2 basic 230VAC	-	Spare part for no. 2; Replaces the previous U2-Guard basic module for 230VAC, art. no. 41.01.961
6	U2-Guard.2 reference cable	1141217	Spare part for no. 1 and no. 2
7	U2-Guard.2 measuring line 5m <sup>#</sup>	1134468	Needed in conjunction with no. 1 or 2 if measuring line version B is selected
8	U2-Guard.2 measuring line 10m <sup>#</sup>	1134525	Needed in conjunction with no. 1 or 2 if measuring line version B is selected
9	U2-Guard.2 measuring line 15m <sup>#</sup>	1134527	Needed in conjunction with no. 1 or 2 if measuring line version B is selected
10	U2-Guard.2 measuring line 20m <sup>#</sup>	1134528	Needed in conjunction with no. 1 or 2 if measuring line version B is selected
11	U2-Guard.2 measuring line 30m <sup>#</sup>	1134529	Needed in conjunction with no. 1 or 2 if measuring line version B is selected
	* One extension module monitors up to a maximum of three transformers. For every three more transformers, you need one additional extension module (no. 3)		
	<sup>#</sup> The measuring line lengths (Version B only) are determined based on the cable runways available on site and have to be measured and ordered accordingly in the longer length. One measuring line is needed per transformer		

### 3 Action

Please check your plants and machines to see if any action is required and contact us if you have any queries. To ensure a high rate of plant availability, Schlatter recommends implementing the modification as soon as possible or keeping a **U2-Guard.2** modification kit with the required number of extension modules (including measuring lines if necessary) in stock. Components of the U2-Guard cannot be used in combination with components of the **U2-Guard.2**. If your plants do not comprise any of the U2-Guard predecessor models, please disregard.

For more information, please call our help desk at +41 (0)44 732 74 20 or email us at [service@schlattergroup.com](mailto:service@schlattergroup.com)

To request a quote or place orders with our spare parts service, call +41 (0) 44 732 71 11 or email [spareparts@schlattergroup.com](mailto:spareparts@schlattergroup.com)

Kind regards  
Schlatter Industries AG



Carsten Janke  
CS Upgrades  
T +41 (0)44 732 73 04  
[carsten.janke@schlattergroup.com](mailto:carsten.janke@schlattergroup.com)