



INDUS GEMINI WIRELESS EMERGENCY STOP

INDUS GEMINI: THE EMERGENCY STOP THAT IS ALWAYS WITHIN REACH!

People often think that an emergency stop should always be hard-wired. This way, the risk of a failure is minimized. From a technical point of view that's quite true. The wired emergency stop seems absolutely safe. But is that really the case?

Are the situations in which your mechanic works for the maintenance and failures always safe? Can he/she always reach the emergency stop button in case of life threatening situations?

A conventional hard-wired emergency stop is usually mounted on the machine. In an awkward position, away from the machine or in a situation where the mechanic is stuck, it is impossible for him to reach the emergency stop. This can have fatal consequences. A portable, wireless emergency stop like the Tyro Indus Gemini is the answer!

With this unique portable solution you can anticipate the risks, and can react very quickly. The compact transmitter with the mushroom-shaped emergency stop button can be easily attached to your belt, so it is always within reach. The Tyro Indus Gemini: safety and functionality at its best!

- A wireless, portable solution that significantly increases the safety at the workplace
- Easy to connect in series to the existing emergency stop circuit or safety PLC
- Response time of < 100 ms
- Operating time >150 hours continuously
- Double safety relays with forcibly guided contacts
- ID safety code 24-bit (16 million combinations)
- Rechargeable battery
- Convenient belt-clip for attachment
- Easy to operate with working gloves
- Full safety certification: PL D, SIL 2, Safety class Cat. 3, Emergency Stop Cat. 2, EMC-E11 (automotive), CE, R&TTE

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TECHNICAL SPECIFICATIONS

Number of function keys	1 emergency stop button
Frequency	868 MHz
Reaction time	< 100 ms
Operating time	> 150 uur continuously (with fully charged transmitter)
Charging time	6 hours maximum
Operating voltage receiver	8-38 Vdc or 230 Vac
Charger transmitter	230 Volt adapter or 12/24 Volt charging cord
Power supply	Battery pack 3,6 V NiMh 750 mAh (Low Self Discharge)
Contacts	Double safety relays with forcibly guided contacts
Range under normal conditions	350 metres (in the forest: 100 - 200 metres)
Safety routine	Signals 'stuck relay warnings', out-of-range signal, Unique ID Safety code (24-bit, 16 million combinations)
Size (L x W x H)	Transmitter 120 x 60 x 30 mm, Receiver 160 x 150 x 60 mm
Temperature range	-30°C / +75°C
Damp- and dirt resistance	IP 66
Housing receiver	IP 66 housing or on DIN-rail

SAFETY CERTIFICATION

NEN-EN 954-1	Safety Category 3
NEN-EN ISO 13849-1	PL (Performance Level) D
NEN-EN-ISO 13850	Emergency Stop Category 2
IEC 61508 / IEC 61511 Process Industry	SIL 2 (Safety Integrity Level)
Other EU guidelines	EMC-e11 (automotive) / R&TTE / CE



The receiver can easily be connected to a safety PLC or directly on the main relay.

With the convenient belt-clip the radiographic emergency stop button is always at your reach!



VERSATILITY MEETS RELIABILITY