

SCAN AWAY THE
SAFETY RISKS



TRANSFER GUARD

Security system that enables transfer pumping laundry
detergents and other chemicals in a reliable and safe way

5-STEP SECURITY SYSTEM

VALIDATED BY QR CODE TECHNOLOGY

WITH EMERGENCY PROCEDURE

Dangers of transfer pumping

Transfer pumping of chemicals **can be dangerous** for several reasons. It can affect a person's health, it can pollute the environment or it can cause uncontrollable effects. These dangers place a **great responsibility on employees, procedures and plant equipment** to be safe and reliable.

By introducing Transfer Guard, Christeyns ensures its customers that liquid detergents are **transfer pumped in a safe and reliable way**.

How does it work?

Thanks to the **5-step security procedure** reinforced with **QR code technology**, any risk of incorrect transfer pumping is removed completely.



5-step security procedure:

1. Truck driver **registers himself** at the laundry.
2. The badge (QR code 1) of the **driver/supplier** is scanned.
3. The badge (QR code 2) of the **employee of the laundry** is scanned.
4. The QR code (3) on the **tank** is scanned.
5. The QR code (4) on the **filling point** is scanned
6. a. If all **scans are valid**
 - ➡ Transfer pumping can be started (air valve will be opened, pressure will be released).
- b. If **scan fails**
 - ➡ Procedure must be started over.
7. Scan the **"end cycle"** QR code (5).
8. a. Disconnect the hoses.
- b. If another product must be transfer pumped.
 - ➡ Repeat the procedure above for that product.

In case of emergency and/or failure:

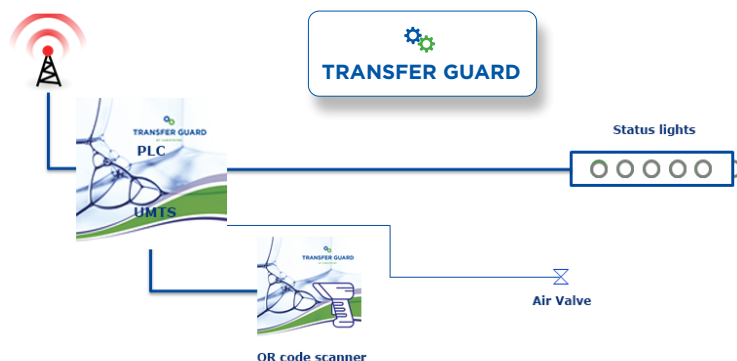
The **emergency pass (QR code 6)** can be used if the system fails. Via the emergency pass the system can be used in manual mode (no more scanning necessary).

Basic configuration

- Consists of three cabinets:
 - PLC with accompanying hardware
 - QR code scanner
 - Signalizing cabinet
- 6 QR codes for maximum safety:
 - 5 Operational QR codes
 - 1 QR-code on Emergency pass
- Connection with Laundry X-pert (optional)



Transfer Guard process set-up



Benefits

- Safe and reliable transfer pumping
- Emergency procedure
- Connection with Laundry X-pert software possible
- Patented system