



fluid  
systems  
automation  
irrigation

irrigation.cloud  
*the future of irrigation*

esyLOCK  
*simply push and go*



esyLOCK®

# About FSA Group



**fluid  
systems  
automation  
group**



**fluid  
systems  
automation  
irrigation**



**fluid  
systems  
automation  
service**



**fluid  
systems  
automation  
valve**



**esyLOCK®**





fluid  
systems  
automation  
irrigation

# esyLOCK®



DRY OR  
WET



NO WAITING  
TIMES



FAST



360°  
ROTATABLE



HOT OR  
COLD



SIMPLY  
PUSH



RELEASABLE



MAX.  
FLOW RATE

PN10

MAX  
PRESSURE



esyLOCK®



fluid  
systems  
automation  
irrigation

esyLOCK®

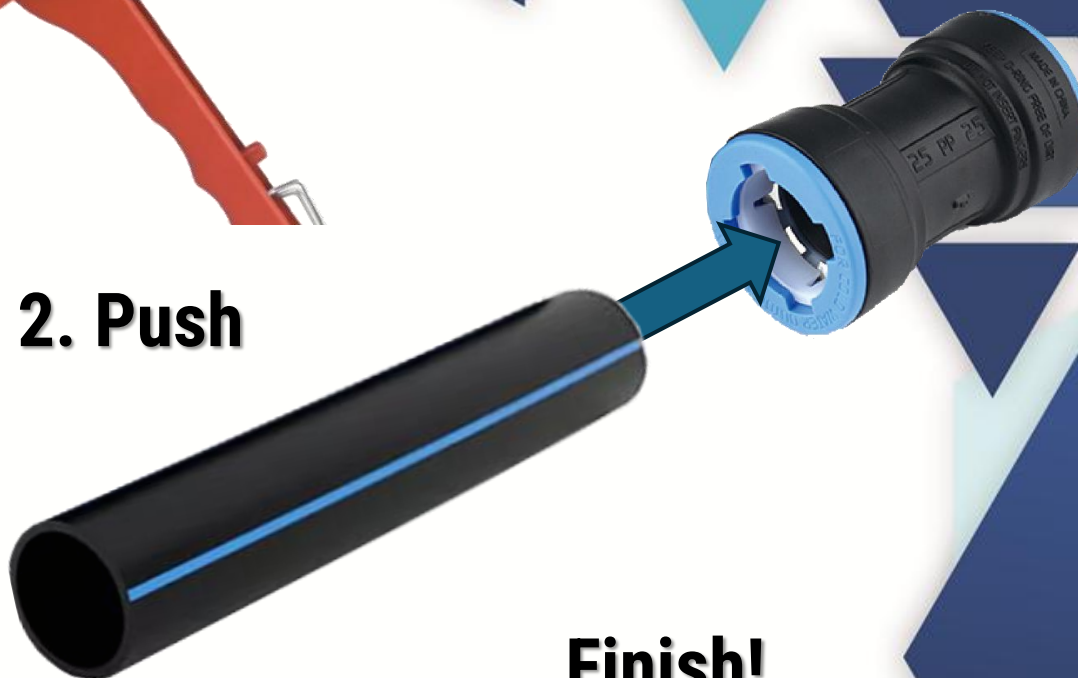
Only 2 steps necessary:

**1. Cut**



*Cutting and assembling  
only takes 5 seconds!*

**2. Push**



**Finish!**



esyLOCK®

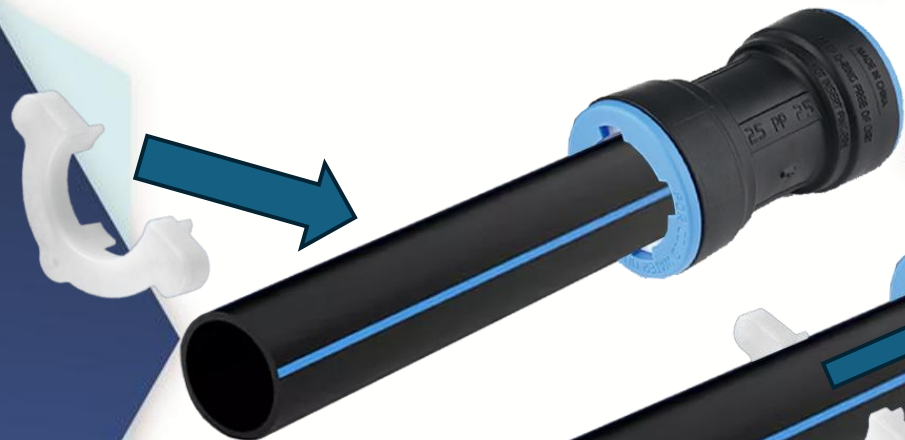


fluid  
systems  
automation  
irrigation

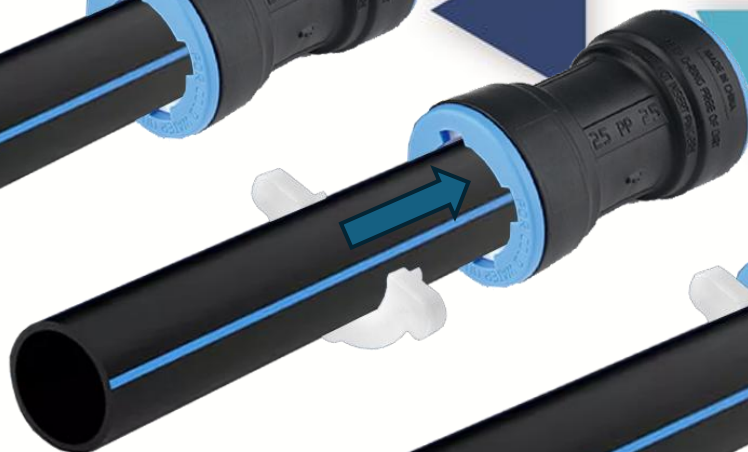
esyLOCK®

# Release as simple as connecting

**1. Click on release tool**



**2. Insert into fitting**



**3. Pull out fitting**



*Cutting and assembling  
only takes 5 seconds!*



irrigation  
**CLOUD**  


esyLOCK®





fluid  
systems  
automation  
irrigation

esyLOCK®

# Huge variety of fittings

Standard HDPE and PE Tubing!

20 mm

25 mm

32 mm



esyLOCK®

## PIPE CONNECTOR

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21001-01	PE pipe 20 mm	4210040404	4210040404
21001-02	PE pipe 25 mm	4210040405	4210040405
21001-03	PE pipe 32 mm	4210040406	4210040406

## PIPE CONNECTOR WITH REDUCTION

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21002-01	PE pipe 20 mm	4210040407	4210040407
21002-02	PE pipe 25 mm	4210040408	4210040408
21002-03	PE pipe 32 mm	4210040409	4210040409

## FEMALE THREAD ADAPTER

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21003-01	PE pipe 20 mm	4210040410	4210040410
21003-02	PE pipe 25 mm	4210040411	4210040411
21003-03	PE pipe 32 mm	4210040412	4210040412
21003-04	PE pipe 40 mm	4210040413	4210040413
21003-05	PE pipe 50 mm	4210040414	4210040414
21003-06	PE pipe 63 mm	4210040415	4210040415
21003-07	PE pipe 75 mm	4210040416	4210040416
21003-08	PE pipe 90 mm	4210040417	4210040417

## MALE THREAD ADAPTER

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21004-01	PE pipe 20 mm	4210040418	4210040418
21004-02	PE pipe 25 mm	4210040419	4210040419
21004-03	PE pipe 32 mm	4210040420	4210040420
21004-04	PE pipe 40 mm	4210040421	4210040421
21004-05	PE pipe 50 mm	4210040422	4210040422
21004-06	PE pipe 63 mm	4210040423	4210040423
21004-07	PE pipe 75 mm	4210040424	4210040424
21004-08	PE pipe 90 mm	4210040425	4210040425

## T-PIECE PIPE CONNECTOR

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21005-01	PE pipe 20 mm	4210040426	4210040426
21005-02	PE pipe 25 mm	4210040427	4210040427
21005-03	PE pipe 32 mm	4210040428	4210040428

## T-PIECE PIPE CONNECTOR WITH REDUCTION

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21006-01	PE pipe 20 mm	4210040429	4210040429
21006-02	PE pipe 25 mm	4210040430	4210040430
21006-03	PE pipe 32 mm	4210040431	4210040431

## T-PIECE PIPE CONNECTOR WITH FEMALE THREAD

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21007-01	PE pipe 20 mm	4210040432	4210040432
21007-02	PE pipe 25 mm	4210040433	4210040433
21007-03	PE pipe 32 mm	4210040434	4210040434
21007-04	PE pipe 40 mm	4210040435	4210040435
21007-05	PE pipe 50 mm	4210040436	4210040436
21007-06	PE pipe 63 mm	4210040437	4210040437
21007-07	PE pipe 75 mm	4210040438	4210040438
21007-08	PE pipe 90 mm	4210040439	4210040439

## T-PIECE PIPE CONNECTOR WITH MALE THREAD

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21008-01	PE pipe 20 mm	4210040440	4210040440
21008-02	PE pipe 25 mm	4210040441	4210040441
21008-03	PE pipe 32 mm	4210040442	4210040442
21008-04	PE pipe 40 mm	4210040443	4210040443
21008-05	PE pipe 50 mm	4210040444	4210040444
21008-06	PE pipe 63 mm	4210040445	4210040445
21008-07	PE pipe 75 mm	4210040446	4210040446
21008-08	PE pipe 90 mm	4210040447	4210040447

## 90° PIPE CONNECTOR

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21009-01	PE pipe 20 mm	4210040448	4210040448
21009-02	PE pipe 25 mm	4210040449	4210040449
21009-03	PE pipe 32 mm	4210040450	4210040450

## 90° PIPE CONNECTOR WITH FEMALE THREAD

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21010-01	PE pipe 20 mm	4210040451	4210040451
21010-02	PE pipe 25 mm	4210040452	4210040452
21010-03	PE pipe 32 mm	4210040453	4210040453
21010-04	PE pipe 40 mm	4210040454	4210040454
21010-05	PE pipe 50 mm	4210040455	4210040455
21010-06	PE pipe 63 mm	4210040456	4210040456
21010-07	PE pipe 75 mm	4210040457	4210040457
21010-08	PE pipe 90 mm	4210040458	4210040458

## 90° PIPE CONNECTOR WITH MALE THREAD

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21011-01	PE pipe 20 mm	4210040459	4210040459
21011-02	PE pipe 25 mm	4210040460	4210040460
21011-03	PE pipe 32 mm	4210040461	4210040461
21011-04	PE pipe 40 mm	4210040462	4210040462
21011-05	PE pipe 50 mm	4210040463	4210040463
21011-06	PE pipe 63 mm	4210040464	4210040464
21011-07	PE pipe 75 mm	4210040465	4210040465
21011-08	PE pipe 90 mm	4210040466	4210040466

## T-PIECE PIPE CONNECTOR WITH REDUCTION

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21012-01	PE pipe 20 mm	4210040467	4210040467
21012-02	PE pipe 25 mm	4210040468	4210040468
21012-03	PE pipe 32 mm	4210040469	4210040469

## T-PIECE ADAPTER

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21013-01	PE pipe 20 mm	4210040470	4210040470
21013-02	PE pipe 25 mm	4210040471	4210040471
21013-03	PE pipe 32 mm	4210040472	4210040472
21013-04	PE pipe 40 mm	4210040473	4210040473
21013-05	PE pipe 50 mm	4210040474	4210040474
21013-06	PE pipe 63 mm	4210040475	4210040475
21013-07	PE pipe 75 mm	4210040476	4210040476
21013-08	PE pipe 90 mm	4210040477	4210040477

## T-PIECE ADAPTER

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21014-01	PE pipe 20 mm	4210040478	4210040478
21014-02	PE pipe 25 mm	4210040479	4210040479
21014-03	PE pipe 32 mm	4210040480	4210040480
21014-04	PE pipe 40 mm	4210040481	4210040481
21014-05	PE pipe 50 mm	4210040482	4210040482
21014-06	PE pipe 63 mm	4210040483	4210040483
21014-07	PE pipe 75 mm	4210040484	4210040484
21014-08	PE pipe 90 mm	4210040485	4210040485

## SHUT-OFF VALVE

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21015-01	PE pipe 20 mm	4210040486	4210040486
21015-02	PE pipe 25 mm	4210040487	4210040487
21015-03	PE pipe 32 mm	4210040488	4210040488

## SHUT-OFF VALVE WITH FEMALE THREAD

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21016-01	PE pipe 20 mm	4210040489	4210040489
21016-02	PE pipe 25 mm	4210040490	4210040490
21016-03	PE pipe 32 mm	4210040491	4210040491

## PIPE END CAP

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21017-01	PE pipe 20 mm	4210040492	4210040492
21017-02	PE pipe 25 mm	4210040493	4210040493
21017-03	PE pipe 32 mm	4210040494	4210040494

## FITTING END CAP

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21018-01	PE pipe 20 mm	4210040495	4210040495
21018-02	PE pipe 25 mm	4210040496	4210040496
21018-03	PE pipe 32 mm	4210040497	4210040497

## UNIVERSAL T-PIECE

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21019-01	PE pipe 20 mm	4210040498	4210040498
21019-02	PE pipe 25 mm	4210040499	4210040499
21019-03	PE pipe 32 mm	4210040500	4210040500

## UNIVERSAL T-PIECE WITH FEMALE THREAD

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21020-01	PE pipe 20 mm	4210040501	4210040501
21020-02	PE pipe 25 mm	4210040502	4210040502
21020-03	PE pipe 32 mm	4210040503	4210040503
21020-04	PE pipe 40 mm	4210040504	4210040504
21020-05	PE pipe 50 mm	4210040505	4210040505
21020-06	PE pipe 63 mm	4210040506	4210040506
21020-07	PE pipe 75 mm	4210040507	4210040507
21020-08	PE pipe 90 mm	4210040508	4210040508

## UNIVERSAL T-PIECE WITH MALE THREAD

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21021-01	PE pipe 20 mm	4210040509	4210040509
21021-02	PE pipe 25 mm	4210040510	4210040510
21021-03	PE pipe 32 mm	4210040511	4210040511
21021-04	PE pipe 40 mm	4210040512	4210040512
21021-05	PE pipe 50 mm	4210040513	4210040513
21021-06	PE pipe 63 mm	4210040514	4210040514
21021-07	PE pipe 75 mm	4210040515	4210040515
21021-08	PE pipe 90 mm	4210040516	4210040516

## UNIVERSAL 90° PIPE CONNECTOR

ARTICLE NUMBER	PE pipe	HDPE pipe	EAN
21022-01	PE pipe 20 mm	4210040517	4210040517
21022-02	PE pipe 25 mm	4210040518	4210040518
21022-03	PE pipe 32 mm	4210040519	4210040519





fluid  
systems  
automation  
irrigation





# USPs

- **Controller directly integrated into valve box cover**
- **You only need *Water, Power* and *WiFi*, nothing else!**
- **No Drilling into insulation or hundreds of meters of cables**
- **Installation and commissioning within 15 Minutes**
- **Combine any number of boxes to one installation**
- **Seamless integration of sensors**
- **Remote Access to customers' installations incl. User management**





# Seamless integration of sensors

GATEWAY

UNISENSOR

UNISENSOR

UNISENSOR

UNISENSOR

UNISENSOR

Humidity & Temperature

Flow

Level

7in1

**Only 1 Gateway for up to 40 Sensors**

**Access irrigation.cloud via  
PC**

**Tablet**

**Smartphone App**



**DEMO**



## Dashboard



DEMO



## Map View

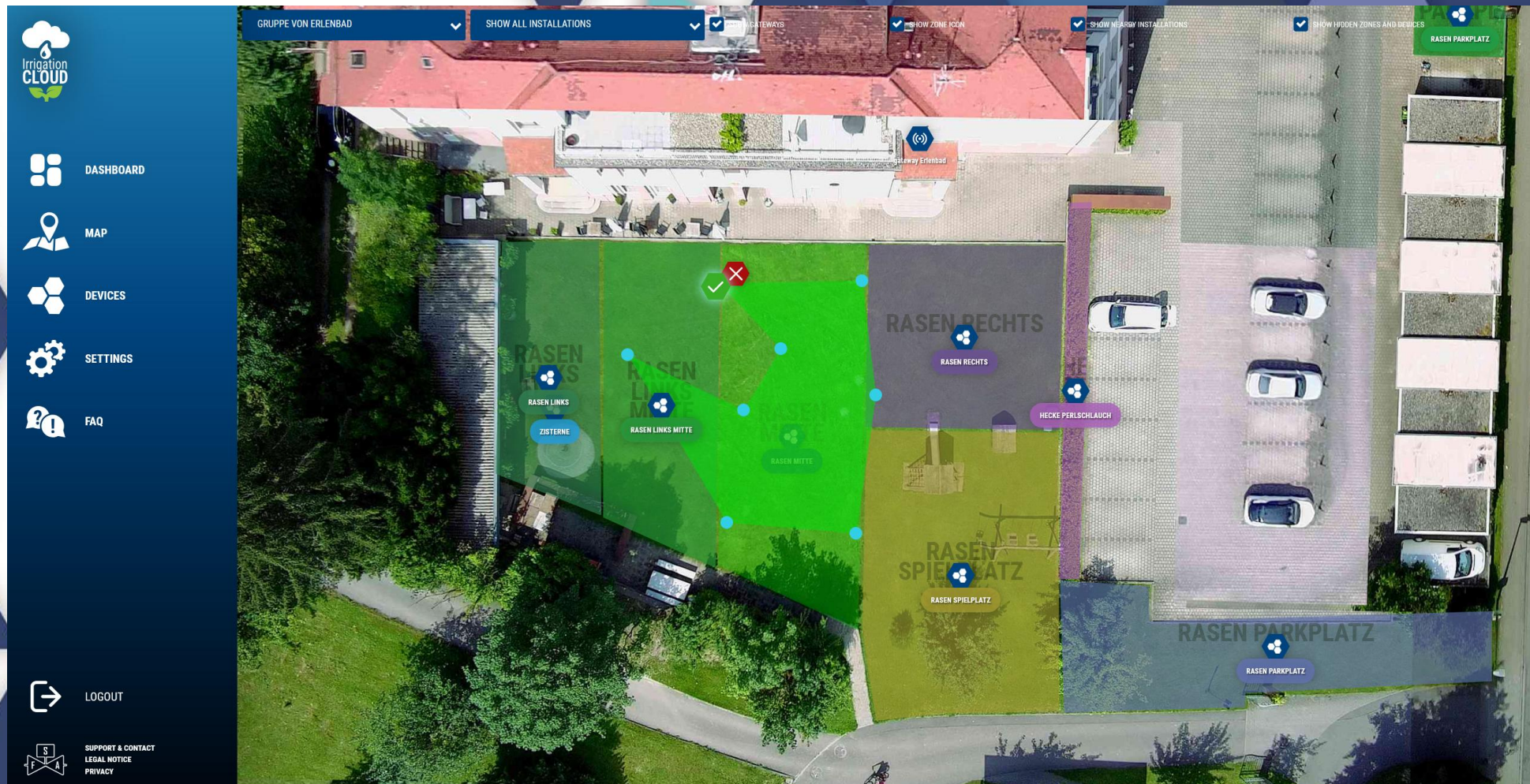
The screenshot displays the 'Map View' of the Irrigation Cloud software. On the left is a dark blue sidebar with the Irrigation Cloud logo and navigation icons for Dashboard, Map, Devices, Settings, and FAQ. Below these are links for Logout, Support & Contact, Legal Notice, and Privacy. The main area shows an aerial map of a property with several colored overlays representing different irrigation zones. Labels on the map include: 'GRUPPE VON ERLENBAD', 'TERRASSE HINTEN', 'RASEN TERRASSE HINTEN', 'RASEN LINKS', 'RASEN LINKS MITTE', 'RASEN MITTE', 'RASEN RECHTS', 'HECKE PERLSCHLAUCH', 'RASEN SPIELPLATZ', 'RASEN PARKPLATZ', and 'RASEN MITTE'. At the top of the map area, there are filter buttons: 'SHOW ALL INSTALLATIONS', 'SHOW GATEWAYS', 'SHOW ZONE ICON', 'SHOW NEARBY INSTALLATIONS', and 'SHOW HIDDEN ZONES AND DEVICES'. A small 'Gateway Erlendbad' icon is also visible on the map.



DEMO




## Drawing Zones



DEMO



## Device View



DASHBOARD

MAP

DEVICES

SETTINGS

FAQ

LOGOUT

SUPPORT & CONTACT  
LEGAL NOTICE  
PRIVACY

DIE ZUKUNFT DER BEWÄSSERUNG

MY.IRRIGATION.CLOUD

SHOP

IHRE PARTNER VOR ORT

### Devices and installations

Here you can find all installations and devices. Create irrigation zones to set up irrigation programs.

SHOW ALL GROUPS / ORGANIZATIONS

SHOW ALL INSTALLATIONS

SHOW HIDDEN ZONES AND DEVICES

NEW INSTALLATION

GASTS GROUP

gateway Rebhisli

VBox Garten

ERLENBADS GROUP

gateway Erlenbad

RASEN TERRASSE HINTEN

intelliVALVE

RASEN PARKPLATZ

intelliVALVE

SENSOREN

Bodenfeuchtigkeit- und Temperatursensor

7 in 1 Sensor

ZISTERNE

Füllstandsensor Schacht

VBox Erlenbad

RASENGRUPPE

RASEN LINKS

Valve Channel 1

Flow sensor brass 45mm Channel 1

pH 5.7

19.6 °C

86.8 %

22.2 °C

49.4 %

100 %



# DEMO




## Calendar Program

DIE ZUKUNFT DER BEWÄSSERUNG

MY.IRRIGATION.CLOUD

SHOP

IHRE PARTNER VOR ORT



DASHBOARD

MAP

DEVICES

SETTINGS

FAQ

LOGOUT

SUPPORT & CONTACT  
LEGAL NOTICE  
PRIVACY

ERLENBADS GROUP

SHOW ALL INSTALLATIONS

SHOW GATEWAYS

SHOW ZONES

gasgas212373 / Rasen mitte

LAST MODIFIED: 2024-08-21 11:09:50 UTC+01:00

Zones settings

Program overview

Calendar

Program description

Calendar Program frontyard 1

Date

TT - HH - JJJJ

January 2025

Mo	Tu	We	Th	Fr	Sa	Su
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Leeren

4:30 AM

Duration

10 minutes

SAVE PROGRAM

RESET FORM

Timer programming



DEMO



## Week Timer

DIE ZUKUNFT DER BEWÄSSERUNG MY.IRRIGATION.CLOUD SHOP IHRE PARTNER VOR ORT

ERLENBADS GROUP SHOW ALL INSTALLATIONS SHOW GATEWAYS SHOW ZONES

IRrigation CLOUD

DASHBOARD  
MAP  
DEVICES  
SETTINGS  
FAQ  
LOGOUT  
SUPPORT & CONTACT  
LEGAL NOTICE  
PRIVACY

RASEN LINKS  
ZISTERNE  
RASEN LINKS MITTE  
RASEN MITTE  
RASEN REC  
RASEN SPIEL

/ gasgas212373 / Rasen mitte  
LAST MODIFIED: 2024-09-21 11:09:50 UTC+01:00

Zones settings  
Program overview  
Calendar  
Timer programming

Program description  
Weekly Time frontyard 2

Weekdays SELECT ALL  
SU MO TU WE TH FR SA

Start time  
6:45 AM

Duration  
30 minutes

SAVE PROGRAM  
RESET CANCEL



DEMO



## Smart Programming

Navigation: DIE ZUKUNFT DER BEWÄSSERUNG | MY.IRRIGATION.CLOUD | SHOP | IHRE PARTNER VOR ORT

Left Sidebar:

- Dashboard
- MAP
- DEVICES
- SETTINGS
- FAQ
- LOGOUT
- SUPPORT & CONTACT
- LEGAL NOTICE
- PRIVACY

Main Content:

ERLENBADS GROUP | SHOW ALL INSTALLATIONS | SHOW GATEWAYS

Aerial view of a property with irrigation zones labeled: RASEN LINKS, RASEN LINKS MITTE, RASEN MITTE, RASEN RECHTS, RASEN SPIELPLATZ.

Smart programming configuration:

Smart programming

Program description: Smart Program hot summer frontyard 1

IF

WEATHER DATA > TEMPERATURE > GREATER/EQUAL > 30°C > IN THE NEXT HOURS > 6 HOUR/S

AND

SENSOR DATA > SOIL MOISTURE > BODENFEUCHTIGKEIT- UND TEMPERATURSENSOR > LESS > 40% > IN THE LAST HOURS > 2 HOUR/S

THEN

IRRIGATION > ON A SPECIFIC DAY > AT A CERTAIN TIME > 06:30 O'CLOCK

Select condition...

As soon as possible

At a certain time

On a specific day

SU MO TU WE TH FR SA

30 minutes

AND OR THEN

SAVE PROGRAM

RESET FORM

DEMO







fluid  
systems  
automation  
irrigation








# Administrate several customers and groups


# irrigation.cloud Software



DIE ZUKUNFT DER BEWÄSSERUNG MY.IRRIGATION.CLOUD SHOP IHRE PARTNER VOR ORT

 **GASTS GROUP**   
Show all groups / organizations  
**Gasts group**  
Erlenbads group

 DASHBOARD  
 MAP  
 DEVICES  
 SETTINGS  
 FAQ  
 LOGOUT  
 SUPPORT & CONTACT  
LEGAL NOTICE  
PRIVACY

SHOW ALL INSTALLATIONS  ☒ SHOW GATEWAYS ☒ SHOW ZONE ICON ☒ SHOW NEARBY INSTALLATIONS ☒ SHOW HIDDEN ZONES AND DEVICES

REBEN 1 REBEN 2 REBEN 3 REBEN 4 REBEN 5 REBEN 6 REBEN 7  
PFLANZEN ZAUN RASEN SEITE PFLANZEN GARTEN RASEN HINTEN  
VBox Garten BÄUME OBSTÄUME

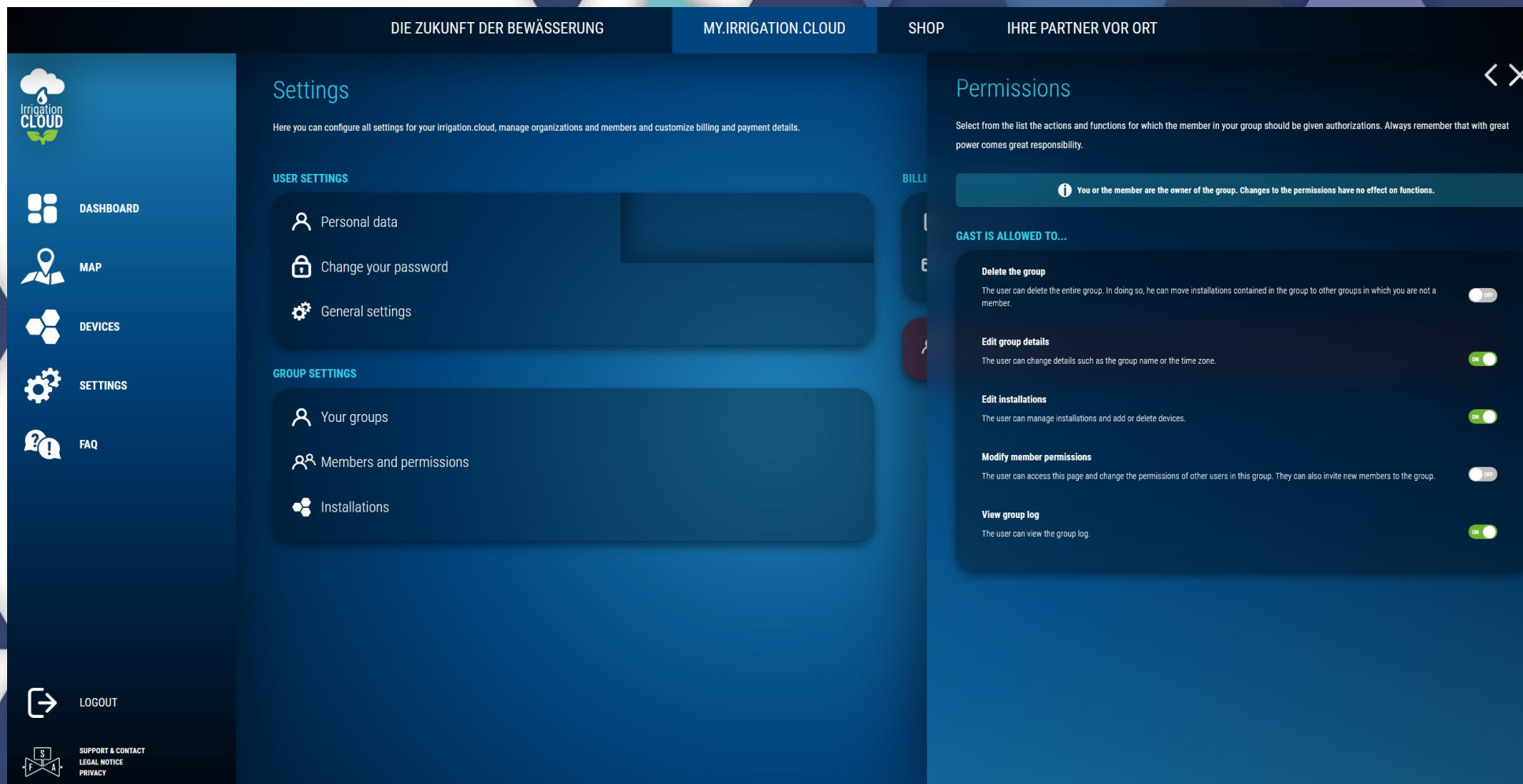
gateway Rebhisli



# DEMO



# Administrate several members and permissions



The screenshot displays the Irrigation.cloud software interface. The top navigation bar includes links for "DIE ZUKUNFT DER BEWÄSSERUNG", "MY.IRRIGATION.CLOUD", "SHOP", and "IHRE PARTNER VOR ORT". The left sidebar contains a menu with icons and labels: "DASHBOARD", "MAP", "DEVICES", "SETTINGS", "FAQ", "LOGOUT", and "SUPPORT & CONTACT", "LEGAL NOTICE", "PRIVACY". The main content area is divided into two panels. The left panel, titled "Settings", contains sections for "USER SETTINGS" (Personal data, Change your password, General settings) and "GROUP SETTINGS" (Your groups, Members and permissions, Installations). The right panel, titled "Permissions", contains a section for "GAST IS ALLOWED TO..." with a list of permissions and their status (ON/OFF): "Delete the group" (OFF), "Edit group details" (ON), "Edit installations" (ON), "Modify member permissions" (OFF), and "View group log" (ON). A warning message at the top of the Permissions panel states: "You or the member are the owner of the group. Changes to the permissions have no effect on functions."

## Use Case: Fully automatic cistern refill

1. Vbox-Controller with 8 ports
2. Use one Port with brass solenoid valve (for drinking water)
3. Connect Water line to solenoid valve
4. Lay tube from valve into cistern (with enough distance to max. water level)
5. Put level sensor into cistern (with battery powered Sensor Module)
6. Create a smart programm for the channel, the valve is connected to:  
**IF LevelSensor IS LESS THAN** e.g. 20cm **THEN** „irrigate“ (switch valve) for 20 minutes

**Result:** When the level of the cistern drops below 20cm, the solenoid valve opens and refills the cistern for 20 minutes

Needed products (additionally to the Vbox Controller, that is used for the irrigation):

- 1 brass solenoid valve for drinking water (approx. 50€)
- 1 Universal Sensor module + Level Sensor + Battery: 300 €
- 1 Gateway (to connect Sensors to) incl. Power supply: 115 €

**Total invest** for automatic cistern refill: **465 €** (list price)





## Use Case: Vertical Green

For a vertical green wall you will need:

- 1 VBox Controller (250 €)
- 1 Power supply (25 €)
- 1 12V DC 10A Power Supply for the pump (50 €)
- 1 Relay for switching the pump (11 €)
- 1 Small 12V DC submersible pump with 300 l/h @ 1.5 bar (70 €)
- 16mm Tubing and Drippers

In case you want to have soil moisture and temperature sensors in the wall (feedback):

- 1 Gateway (for up to 40 Sensors) incl. Power supply (115 €)
- Universal Sensor module + Battery (up to 10 years) + moisture/temp. Sensor (185 €)

You can use up to 40 of the sensors to distribute it over the wall with only one WiFi-Gateway

In case you don't have WiFi of the customer (that can be used), you will additionally need:

- 1 (Outdoor) LTE-Router (190 €)
- 1 SIM Card per VBox Controller or per up to 10 Sensors (40 € for one year, 200 € 5 year or 400 € 10 year)

In this case 2 SIM-Cards, as 1VBox Controller + 1 Gateway with sensors





fluid  
systems  
automation  
irrigation

# irrigation.cloud Software

## Use Case: big area

For a bigger area with widely spread irrigation zones:

- 1 VBox Controller in each zone (250 €)
- 1 Power supply (25 €)

It locally only need power, WiFi and water

In case, there is no WiFi available, you can use:

- Either an Outdoor WiFi-Repeater (up to 200m) (75 €)
  - Or an Outdoor LTE Router (190 €)
- With 1 SIM package per VBox Controller (40 € per year)

