



### MODULAR DESIGN

Thanks to an expansion card system, the Command F Pro has a fully modular design: up to four output cards for treatment units and two communication cards can be installed. The Aqua- 4D® system can be configured according to your needs.



### INFINITE WATER FLOW

A treatment unit TU 360G-A can treat a flow up to 21,6 m<sup>3</sup>/hour (95,1 US gpm, 5700 gpm, 6 l/s). Up to four TU 360 G-A can be connected to a single Command F Pro and several Command F Pros can be synchronized between them, bringing the treatment capacity to infinity.



### ROBUST DESIGN

The choice of components as well as adherence to the protection index IP65 of the Command F Pro and treatment units make the Aqua-4D® a tried, robust product.



### ALARM REPORT OPTION

The extension card “alarm report” allows the transmission of alarms to a central management unit. You no longer have to worry about the status of your system.



### SYNCHRONIZATION OPTION

The extension card “synchronization” allows the synchronization of the signals of several Command F Pros, extending the number of connectable treatment units to infinity.



### ALARM MANAGEMENT

The display and command buttons of the Command F Pro allow a clear visualization of the system’s status and management of potential alarms.

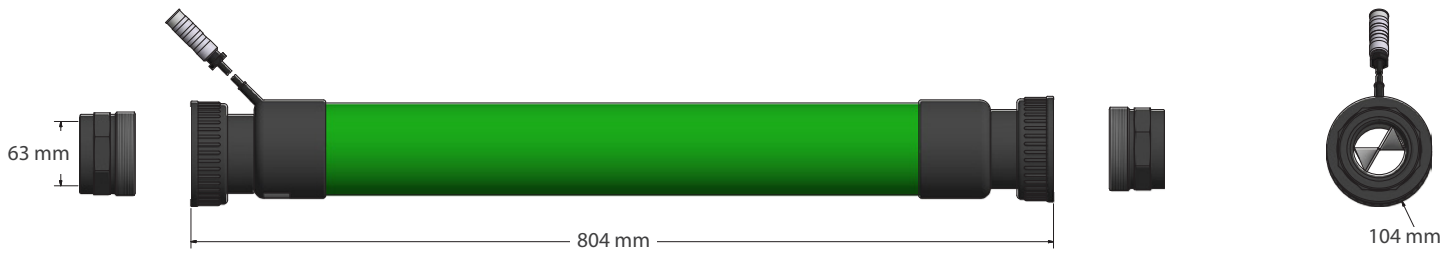


### PARAMETERS CONFIGURATION

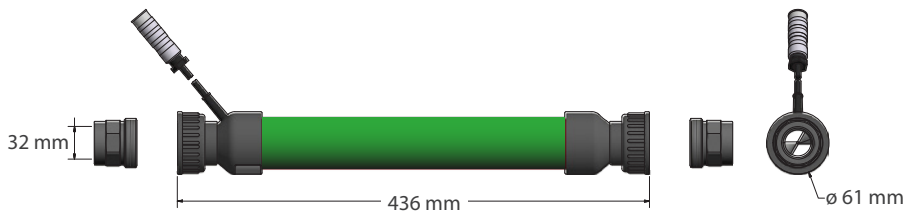
Operating mode, language choice and alarm management can be configured on the Command F Pro.

# A MODULAR SYSTEM

## TU 360G-A



## TU 60G-A



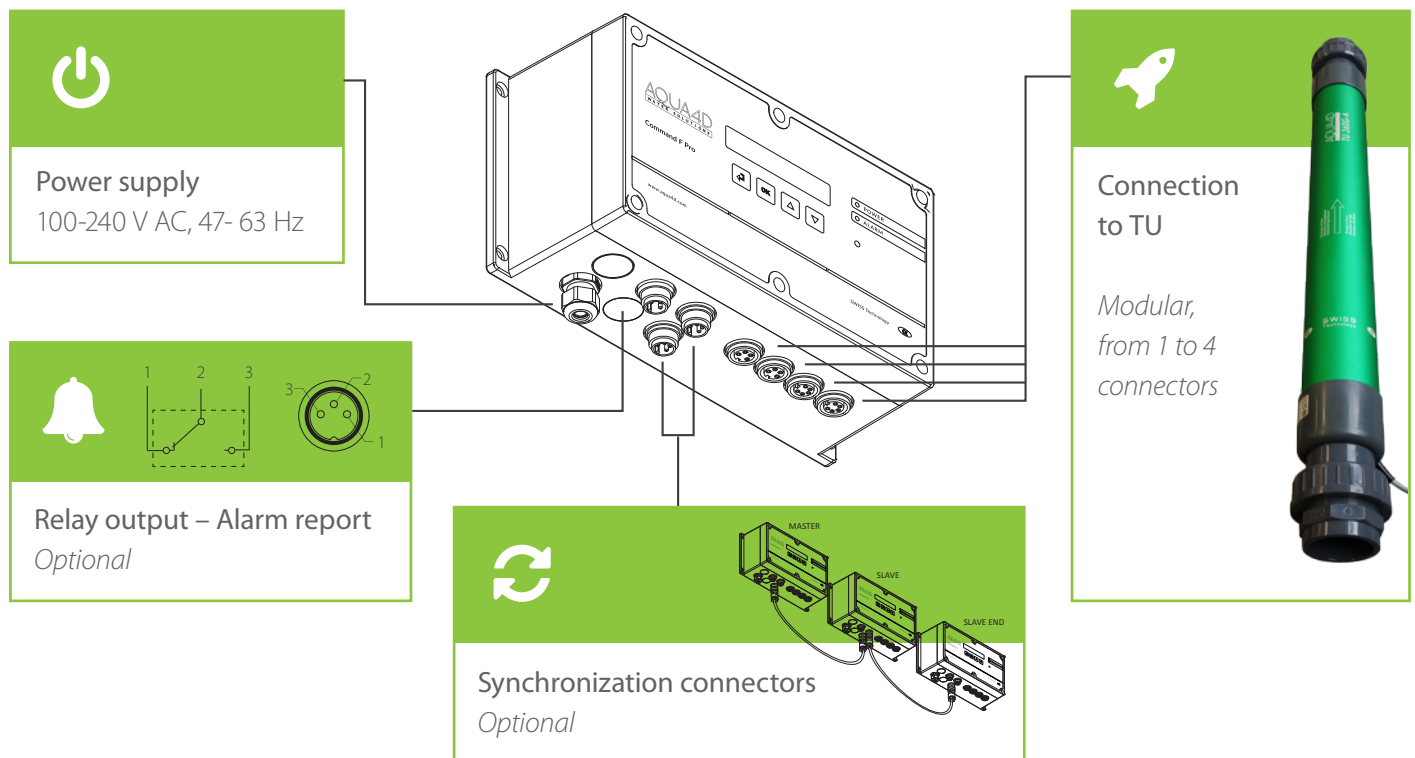
## COMMAND F PRO



The Aqua-4D® system is a set composed of the following modules:

- ✓ The Command F Pro is the “brain” of the system.  
It produces treatment signals and controls continuously the good operation of the system.
- ✓ Treatment units (TU) diffuse the signals generated by the Command F Pro in the water.  
A treatment unit TU 360G-A can treat a water flow up to 21,6 m<sup>3</sup>/hr (95.1 US gpm, 79.2 gpm).  
The treatment units are installed in parallel to correspond to the total water flow to be treated.

# CONNECTIVITY & OPTIONS



# TECHNICAL DATA

## TU 360G-A & TU 60G-A

Mechanical construction TU 360G-A	
Length (between mating surfaces)	804 mm
Max. external diameter	104 mm
Connection	Threaded union nut G, 2 3/4", female
Adapters	PVC 63mm, female coupling
Size rating	2" (DN 50)
Weight	6.6 kg
Connecting cable length	280 cm
Connector	Binder Serie 423, 5 poles, male
Maximum flow rate	360 L/min (21.6 m <sup>3</sup> /h, 6 l/s)
Nominal pressure	PN16

Mechanical construction TU 60G-A	
Length (between mating surfaces)	436 mm
Max. external diameter	61 mm
Connection	Threaded union nut G 1.5", female
Adapters	PVC 32 mm, female coupling
Size rating	1" (DN 25)
Weight	1.9 kg
Connecting cable length	150 cm
Connector	Binder Serie 423, 4 poles, male
Maximum flow rate	60 L/min (3.6 m <sup>3</sup> /h, 1 l/s)
Nominal pressure	PN16

Ambient conditions	
Protection index	IP 65
Ambient temperature	0 ... 60 [°C]
Storage temperature	0 ... 70 [°C]

Materials and authorizations	
Material	PVC-U, approved for drinking water.

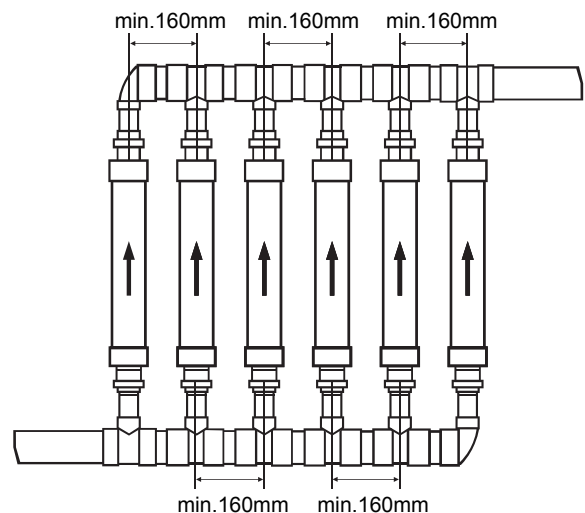
Temperature	Maximum pressure
20°C	16 bar
40°C	10.3 bar
60°C	4 bar

## COMMAND F PRO

Mechanical construction	
Dimensions	L x l x p : 264 x 154 x 96mm
Weight	1.5 - 2.1 kg (depending on the configuration)
Housing material	ABS - Polycarbonate
TU 360 connector(s)	Binder Serie 423, 5 poles, female
TU 60 connector(s)	Binder Serie 423, 4 poles, female
Synchronization connectors	Binder Serie 423, 4 poles, male
Alarm report connector	Binder Serie 423, 3 poles, male

Power supply	
Supply voltage	100 ... 240 V AC, 47 ... 63 Hz
Power consumption	max. 50 W

Ambient conditions	
Protection index	IP 65
Ambient temperature	0 ... 40 [°C]
Storage temperature	-25 ... 65 [°C]
Electromagnetic compatibility	Emissivity and immunity in accordance with IEC 61000-6-1 and IEC 61000-6-3
Surge protection	In accordance with IEC 61000-4-5
Relative humidity	0 ... 95 %, without condensation



## INSTALLATION INSTRUCTIONS

- ✓ The installation of the treatment units in the pipes is performed in such a way that the arrow is pointing in the direction of the water flow.
- ✓ The treatment units can be installed horizontally or vertically, upstream or downstream.
- ✓ Several treatment units can be installed in parallel. The minimum distance between two TU 360G-A, measured from the center of one axis to the other, is 160 mm (100mm for TU 60G-A).

# DESIGNATION OF THE AQUA-4D® SYSTEMS

In accordance with the configuration that is installed, the designation of the Aqua-4D® systems is as follows:

## AQUA-4D® F-X 01 SR

<b>F</b>	<b>X</b>	<b>0</b>	<b>1</b>	<b>S</b>	<b>R</b>
Letter	Letter	Number from 0 to 4	Number from 0 to 4	Letter S	Letter R
Product generation	Field of application	No. of TU 360	No. of TU 60	Synchronization Option	Alarm report Option

### Example: Aqua-4D® F-A 40 SR

Aqua-4D® system for agriculture (A) comprising four TU 360G-A with synchronization option (S) and alarm report option (R).

## PACKAGES

Aqua-4D® system	Number of Command F Pro	Number of TU 360G-A	Item n°	Flow rate [m³/h]	Flow rate [L/s]	Flow rate [gpm]	Flow rate [US gpm]	Weight [kg]
Aqua-4D® F-A 10	1	1	94042	21.6	6	79.2	95.1	9
Aqua-4D® F-A 20	1	2	94054	43.2	12	158.4	190.2	16.3
Aqua-4D® F-A 30	1	3	94063	64.8	18	237.6	285.3	23.7
Aqua-4D® F-A 40	1	4	94069	86.4	24	316.8	380.4	31
Aqua-4D® F-A 50S	2	5	94072	108	30	395.9	475.5	40.2
Aqua-4D® F-A 60S	2	6	94074	129.6	36	475.1	570.6	47.5
Aqua-4D® F-A 70S	2	7	94076	151.2	42	554.3	665.7	54.9
Aqua-4D® F-A 80S	2	8	94078	172.8	48	633.5	760.8	62.2

Other configurations (smaller and larger flow rates) are available on request.

## ACCESSORIES

### SYNCHRONIZATION CORD

Cable necessary for the synchronization of several Command F Pros.

- ✓ Length 0.6 m Item n° 83401
- ✓ Length 5 m Item n° 83400
- ✓ Length > 5 m on request (max. 200 m)

### ADAPTER FOR TU, US STANDARDS

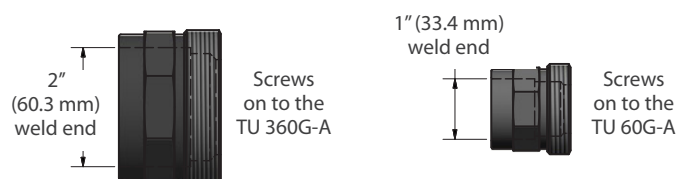
Adapter to mount the treatment units on US-standards pipes.

- ✓ For TU 360G-A (2" weld end) Item n° 83611
- ✓ For TU 60G-A (1" weld end) Item n° 83612

### EXTENSION CORDS FOR TU 360G-A

When the Command F Pro is located more than 2 meters from the TU 360G-A, an extension will be necessary.

- ✓ 5 m extension Item n° 83210
- ✓ 10 m extension Item n° 83211
- ✓ 15 m extension Item n° 83212
- ✓ Length > 15 m on request (max. 50 m)



Datasheet and detailed user manual can be downloaded at [www.aqua4d-irrigation.com](http://www.aqua4d-irrigation.com)