



## SAÏSS WATER CONSERVATION PROJECT, M'DEZ DAM

Model: **MUT2200EL + MC608A**

Internal Size: **2200 mm / 88"**

Overall size: **2550 mm / 102"**

Weight: **3.000+ Kgs net**

Capacity: **34.800 l/s**

Manufacturer: **Euromag International Srl**

Destination: **Morocco**



### CASE STUDY

## INTRODUCTION AND BACKGROUND

The Saïss plain is a vast and fertile plain located in the north of Morocco, between the Rif and the Middle Atlas. The plain of Saïss covers nearly 2,211 km<sup>2</sup> and includes nearly 40,000 irrigated hectares. Olive trees, orange trees, cereals, vines and various market garden plants are cultivated there. The plain also has several thermal and tourist resorts.

In this area, in 2015 King Mohammed VI has launched the construction of the M'dez dam, which will contribute to the protection of downstream areas against flooding, to the production of electrical energy, to the improvement of the volume regulated at the upper Sebou level for the development of irrigation in the basin, as well as the improvement of the drinking water supply of urban centers and neighboring localities.

The Saïss Water Conservation Project (2015-2024) will contribute to the fight against soil erosion, the preservation of ecosystems and the rehabilitation of forest areas over an area of 19,000 ha, opening up 80 douars in the region (around 27,000 people) and protection against the risk of flooding.

## MEASUREMENT REQUIREMENTS

Part of the program of the High Commission for Water and Forests and the Fight against Desertification, M'dez dam will have a storage capacity of 700 million m<sup>3</sup>, becoming one of the eight most important dams in Morocco, with a budget of around 1.5 billion MAD (140 Mio EUR).

This dam will also supply the water table depleted by the irrigation of agricultural land in the Saïss (125 million m<sup>3</sup>). The structure, which will be built over an area of 27.5 hectares, will also help open up the douars and develop environmental tourism through the operation of the dam's reservoirs. The province of Sefrou has important rivers, including Oued Sebou, dams, especially that of Allal Fassi, and numerous springs, but these water resources are insufficient in the face of the high demand for irrigation water and drinking water, especially during periods of drought.

## EUROMAG SOLUTION

After 1 year from the project first evaluation, Euromag was assigned the task to develop and design the 2 MUT2200EL DN2200 PN10. The solution provided, based on the results from field tests and years of experience, was to combine the sensors with MC608A converter, necessary for the correct measurement of the flow coming from the adduction system of the M'dez dam.

On the 15th of March 2019 the two MUT2200EL DN2200 have left the factory - more than 1 year after the project first evaluation, 14 weeks after the official order, and 2 weeks ahead of schedule.

## OFFICIAL LAUNCH

Prior to the launch of the two unique flowmeters, a delegation of 5 representatives from the designated commission of the Ministry of Agriculture, maritime fisheries, rural development and water and forests, have personally witnessed the final tests in factory and signed the official report of conformity of the flowmeters, proving that the various examinations carried out and the verification of the documentation provided on the equipment complied with the contractual technical specifications.



## PRODUCT SPECIFICATION:

**Model**  
**MUT2200EL + MC608A**

Size: **DN 2200**

Flanges type: **EN 1092-1/01/A - PN10**

Max working pressure: **10 bar**

Electrodes: **4 Electrodes HC**

Execution: **Separate/Remote**

Separation box type: **MC608**

Protection Class: **IP68**

Materials

**Electrodes Hastelloy C-276**

**Flow Tube AISI304/304L**

**Enclosure S235JR**

**Flanges P245GH**

**Liner Ebonite**

**Separation Box Aluminium**

## Field Verificator

**Euromag's diagnostic,  
verification, conditioning and  
monitoring tool**

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