

# Clock and Data Recovery



The clock, still in use today, was completed in 1583 (and complies with the calendar reform, of the year before, by Pope Gregory XIII !) It is the masterpiece of Pietro Fanzago, a Clusone citizen (the town written history dates back to 774) and replaced a previous one (of which very little is known) that was in dire need of replacement.

Besides the time of the day (shown on a 24 circular dial where the hand advances counterclockwise!), it indicates the month of the year, the Zodiac signs and the duration of the night, the day of the moon' month plus the phase of the moon and finally the trine, square, sextile and opposition for astrological purposes.

The passing of each hour is marked by a bell, in cycles of one to twelve strikes, followed by a repetition after about 80 seconds.

The "mostra", i.e. the dials, appears on the outer south wall of the city hall that faces the town main square.

The turret clock, entirely made of wrought iron, is located inside the tower of the city hall and drives the "mostra" via coaxial iron axes. The mechanical power is still today provided by the slow descent of heavy stones, that need recharging within 30 hours.

Most of it is perfectly original, but the oscillating element which was a foliot, replaced during the 18<sup>th</sup> century by a pendulum, and the escapement (the original was almost certainly of the vertical verge type) that is today a pin pallet escapement.



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